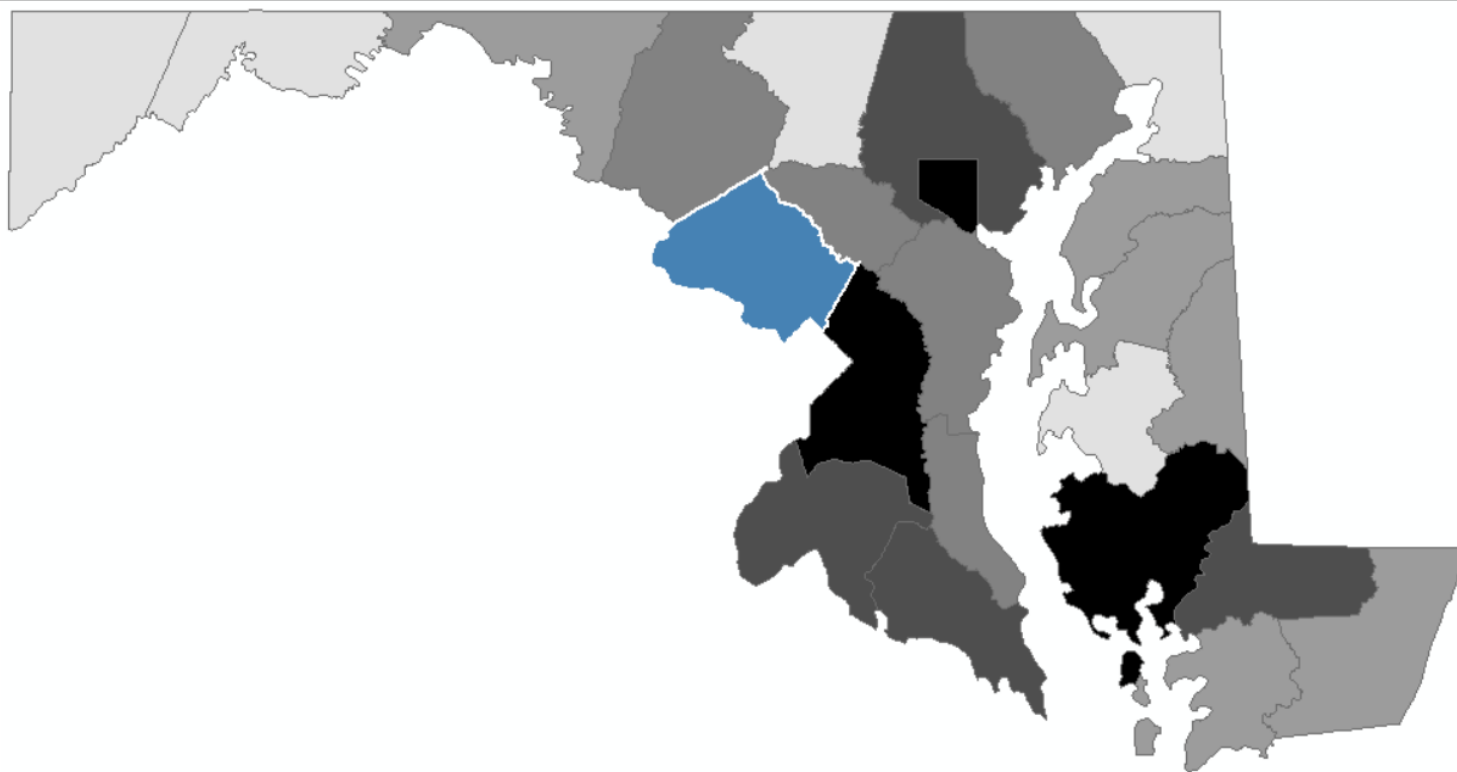


# 2016



## Montgomery County HIV Annual Epidemiological Profile

Data reported through June 30, 2017

Center for HIV Surveillance, Epidemiology and Evaluation  
Infectious Disease Prevention and Health Services Bureau  
Prevention and Health Promotion Administration  
Maryland Department of Health  
<http://phpa.health.maryland.gov/OIDEOR/CHSE>  
1-800-358-9001

# Acknowledgements

This report is published by The Center for HIV Surveillance, Epidemiology and Evaluation annually with valuable contribution from the following people listed. In addition, this report would not have been possible without the cooperation, dedication and hard work of HIV health care providers, local health departments, community groups, researchers, and members of the community.

## *Center for HIV Surveillance, Epidemiology and Evaluation*

Colin Flynn, Chief  
Jami Stockdale, Deputy Chief, Epidemiology and Evaluation  
Reshma Bhattacharjee, Deputy Chief, HIV Case Surveillance

Alyssa Arey, Epidemiologist  
Morgan Boyer, Epidemiologist  
Harold Boykin, Epidemiologist  
James Carrier, Epidemiologist  
Molly Gribbin, Epidemiologist  
Jennifer Lawall, Epidemiologist

Leigh Carels, Surveillance Investigator  
Phyllis Finch, Surveillance Investigator  
Delwar Hossain, Surveillance Investigator  
Bekele Mamo, Surveillance Investigator  
Winona Matthews, Surveillance Investigator  
Carly Stokum, Surveillance Investigator  
Assefa Tigeneh, Surveillance Investigator  
Denise Bannerman-Wood, Data Quality Specialist/NIR Coordinator

Yvonne Childress, Data Specialist  
Kathy Colburn, Data Specialist  
Lillian Keene, Data Specialist

Nancy McCaslin, Research Statistician  
Stephanie Okehie, Research Statistician  
Marilyn Walkins, Health Record Reviewer

Linda Knapp, Evaluator  
Hemil Dhami, Research Statistician

Suggested Citation: Montgomery County Annual HIV Epidemiological Profile 2016. Center for HIV Surveillance, Epidemiology and Evaluation, Maryland Department of Health, Baltimore, MD. 2017.

# Table of Contents

<b>Acknowledgements .....</b>	<b>2</b>
<b>Table of Contents .....</b>	<b>3</b>
<b>Section I – Background Information .....</b>	<b>5</b>
HIV/AIDS Reporting Requirements.....	5
For Assistance with HIV/AIDS Reporting .....	5
Limitations in the HIV/AIDS Data .....	5
Stages of a Case of HIV/AIDS .....	6
Changes in Case Terminology .....	6
Laboratory Data .....	7
Sources of Data .....	7
Tabulation of Column Totals .....	7
Data Suppression .....	7
HIV Exposure Categories .....	7
<b>Section II – Trends 1985-2016 .....</b>	<b>10</b>
Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2016, Reported through 6/30/2017 .....	10
Figure 2 – Trends in Living HIV Cases, 1985-2016, Reported through 6/30/2017 .....	11
Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017 .....	12
Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017 .....	14
Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017 .....	16
Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017 .....	18
<b>Section III – Adult/Adolescent Cases by Jurisdiction .....</b>	<b>20</b>
Table 1 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017 .....	20
Table 2 – Adult/Adolescent AIDS Diagnoses during 2016, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through 6/30/2017 .....	22
Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis, Reported through 6/30/2017 .....	24
Table 4 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis or Current Residence, Reported through 6/30/2017 .....	26
Table 5 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017 .....	28
Table 6 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017 .....	30
<b>Section IV – Continuum of Care Cascades .....</b>	<b>32</b>
Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Montgomery County Residents, Reported through 6/30/2017 .....	32
Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Montgomery County Residents, Reported through 6/30/2017 .....	33
<b>Section V – Cases by Age .....</b>	<b>34</b>
Table 7 – HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017 .....	34
Table 8 – HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017 .....	35
Table 9 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017 .....	36
Table 10 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017 .....	36
<b>Section VI – Adult/Adolescent Cases by Demographics .....</b>	<b>37</b>
Table 11 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017 .....	37
Table 12 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017 .....	39

Table 13 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017 .....	40
Table 14 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017 .....	41
<b>Section VII – HIV Cases by Expanded Demographics.....</b>	<b>42</b>
Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017 .....	42
Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017 .....	43
Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017 .....	44
<b>Section VIII – HIV Exposure Category.....</b>	<b>45</b>
Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016, Reported through 6/30/2017 .....	45
Table 17 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Exposure Category and Sex at Birth, Reported through 6/30/2017 .....	47
Table 18 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Exposure Category and Sex at Birth, Reported through 6/30/2017 .....	49
Table 19 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016 and Reported through 6/30/2017 .....	50
Table 20 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017 .....	51
Table 21 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017 .....	51
<b>Section IX – Disease Progression and Mortality.....</b>	<b>52</b>
Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2015, Reported through 6/30/2017 .....	52
Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2015, Reported through 6/30/2017 .....	53
<b>Section X – Pediatric Cases .....</b>	<b>54</b>
Figure 13 – Trends in Pediatric HIV Cases, 1985-2016, Reported through 6/30/2017 .....	54
Table 22 – Pediatric HIV Total Living HIV Cases, Diagnosed in Maryland, Alive on 12/31/2016, by Jurisdiction, Reported through 6/30/2017 .....	55
Table 23 – Pediatric Total Living HIV Cases, Diagnosed in Maryland, by Sex at Birth and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017 .....	56
<b>Glossary of Terms.....</b>	<b>57</b>

# Section I – Background Information

## HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phones numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

## For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

## Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 12/31/2016. Nationally, it has been estimated that 15.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 15.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of 12/31/2016. Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted

to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2017. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent eight and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

## Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

## Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31<sup>st</sup> of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag,



and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2016 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 1/1/2016-12/31/2016, as reported by name through 6/30/2017.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 6/30/2017 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2016 as reported by name through 6/30/2017.

## Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14%. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

## Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2017.

Population data by sex, age, and race/ethnicity are from the July 1, 2016 U.S. Census Estimates. Population data by country-of-birth are from the Census Bureau's 2015 American Community Survey. This produces a difference in total population due to the different source. Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2015 HIV Surveillance Supplemental Report published July 2017. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

## Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

## Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

## HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

**MSM/IDU:** Men who report a history of sexual contact with other men who also have engaged in injection drug use.

**Men who have Sex with Men (MSM):** Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

**Injection Drug Use (IDU):** Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

**Heterosexual Exposure (HET):** Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

**Perinatal Exposure:** Any baby born to an HIV positive mother.

**Other Exposure:** Includes men or women who received clotting factor for hemophilia/coagulation disorder, or received a transfusion of blood/blood components, or received a transplant of tissue/organs or artificial insemination, or worked in a health care or clinical laboratory setting.

Not all exposure data is reported and is therefore missing for some cases. Multiple imputation is a statistical method by which missing exposure categories are replaced with estimated or probable exposure categories. Multiple imputation involves filling in the missing exposure category with multiple possible exposures, creating several complete datasets. Filling in the missing exposure category is done using the observed data for the individual case as well as data in aggregate from other cases in Maryland. The complete datasets, containing the various predictions for each missing exposure category, are combined to create a final dataset with previously missing exposure category replaced by weighted estimates.



## **MDH Non-Discrimination Statement**

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

### **English**

Help is available in your language: 410-767-5227 (TTY: 1-800-735-2258). These services are available for free.

### **Español/Spanish**

Hay ayuda disponible en su idioma: 410-767-5227 (TTY: 1-800-735-2258). Estos servicios están disponibles gratis.

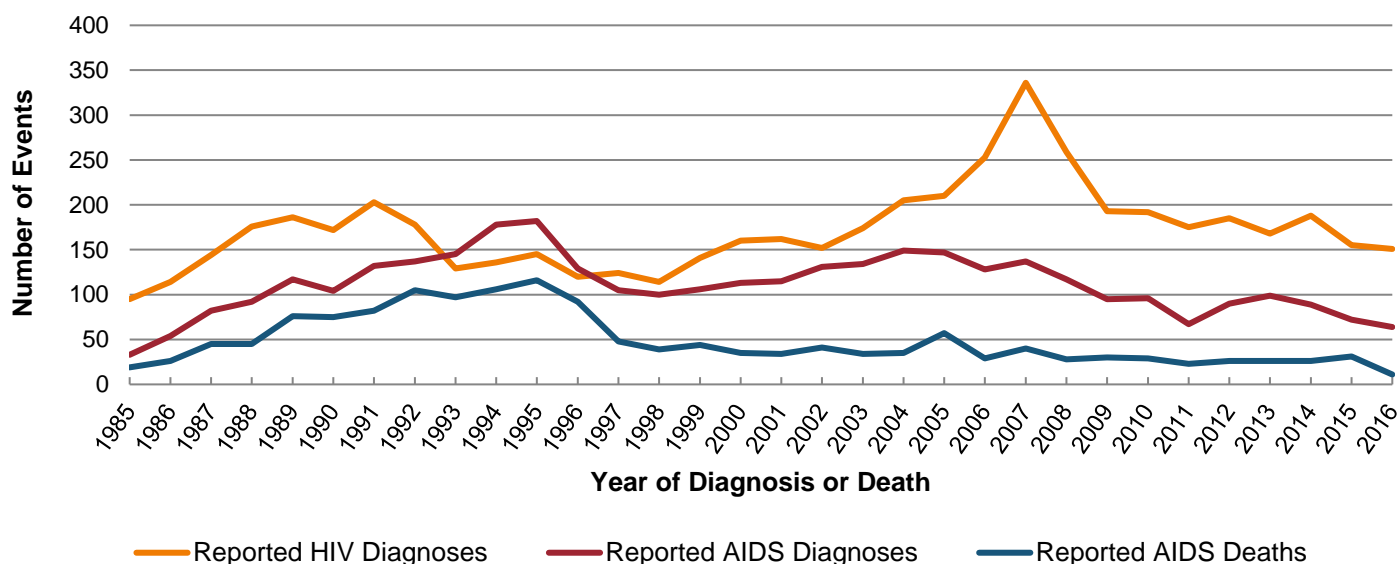
### **中文/Chinese**

用您的语言为您提供帮助: 410-767-5227 (TTY: 1-800-735-2258). 这些服务都是免费的

## Section II – Trends 1985-2016

**Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2016, Reported through 6/30/2017**

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2016 as Reported through 6/30/2017



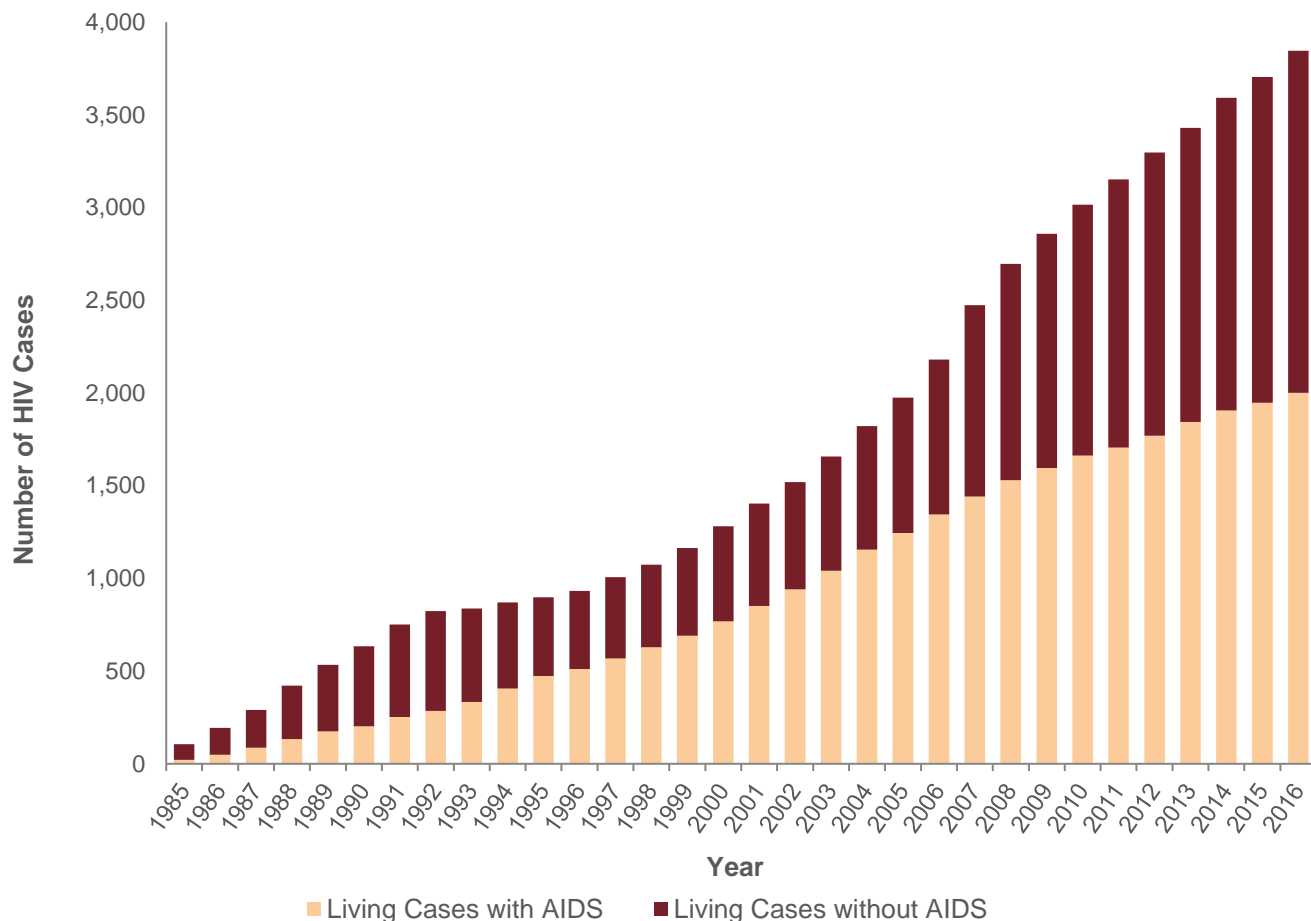
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS	YEAR OF DIAGNOSIS OR DEATH	REPORTED HIV DIAGNOSES	REPORTED AIDS DIAGNOSES	REPORTED AIDS DEATHS
<1985	38	15	8	2001	162	115	34
1985	95	33	19	2002	152	131	41
1986	114	54	26	2003	174	134	34
1987	144	82	45	2004	205	149	35
1988	176	92	45	2005	210	147	57
1989	186	117	76	2006	253	128	29
1990	172	104	75	2007	336	137	40
1991	203	132	82	2008	259	117	28
1992	178	137	105	2009	193	95	30
1993	129	145	97	2010	192	96	29
1994	136	178	106	2011	175	67	23
1995	145	182	116	2012	185	90	26
1996	120	129	92	2013	168	99	26
1997	124	105	48	2014	188	89	26
1998	114	100	39	2015*	155	72	31
1999	141	106	44	2016*	151	64	11
2000	160	113	35	TOTAL	5,533	3,554	1,558

\*2015-2016 reported AIDS deaths are preliminary.

**Figure 2 – Trends in Living HIV Cases, 1985-2016, Reported through 6/30/2017**

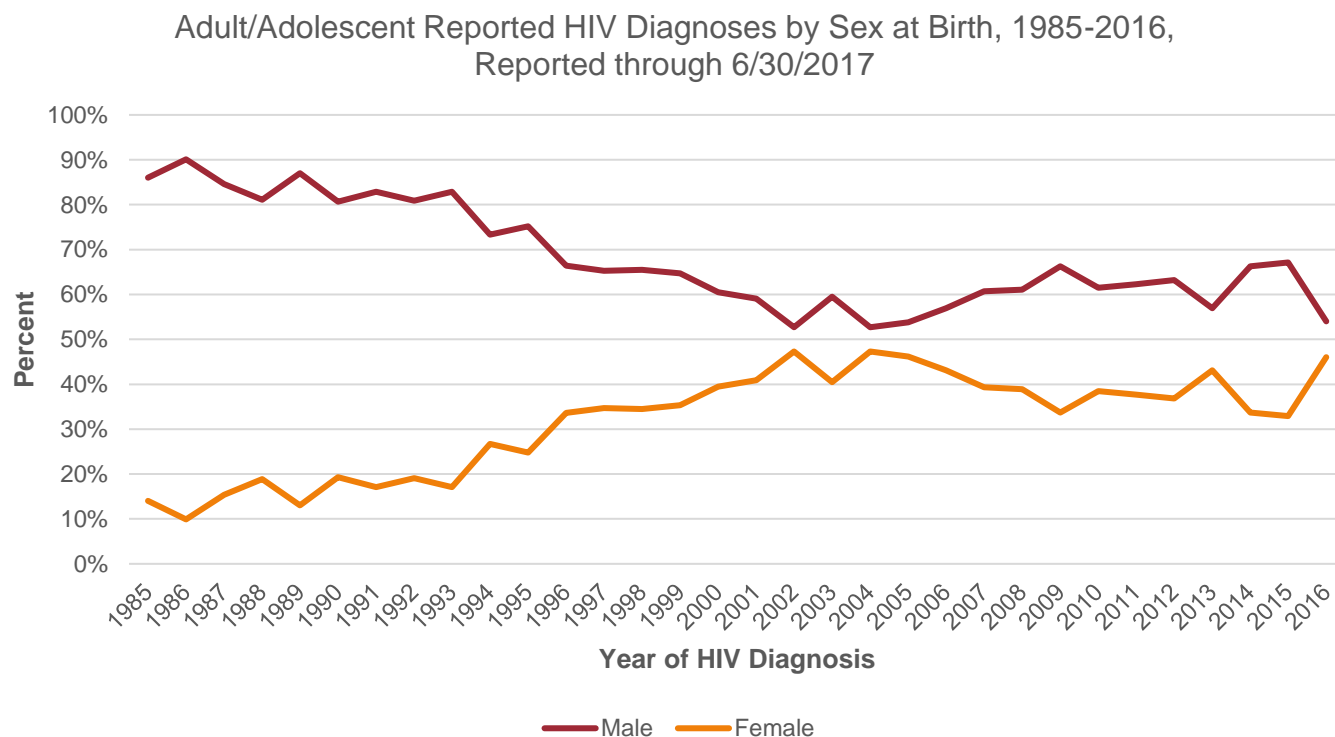
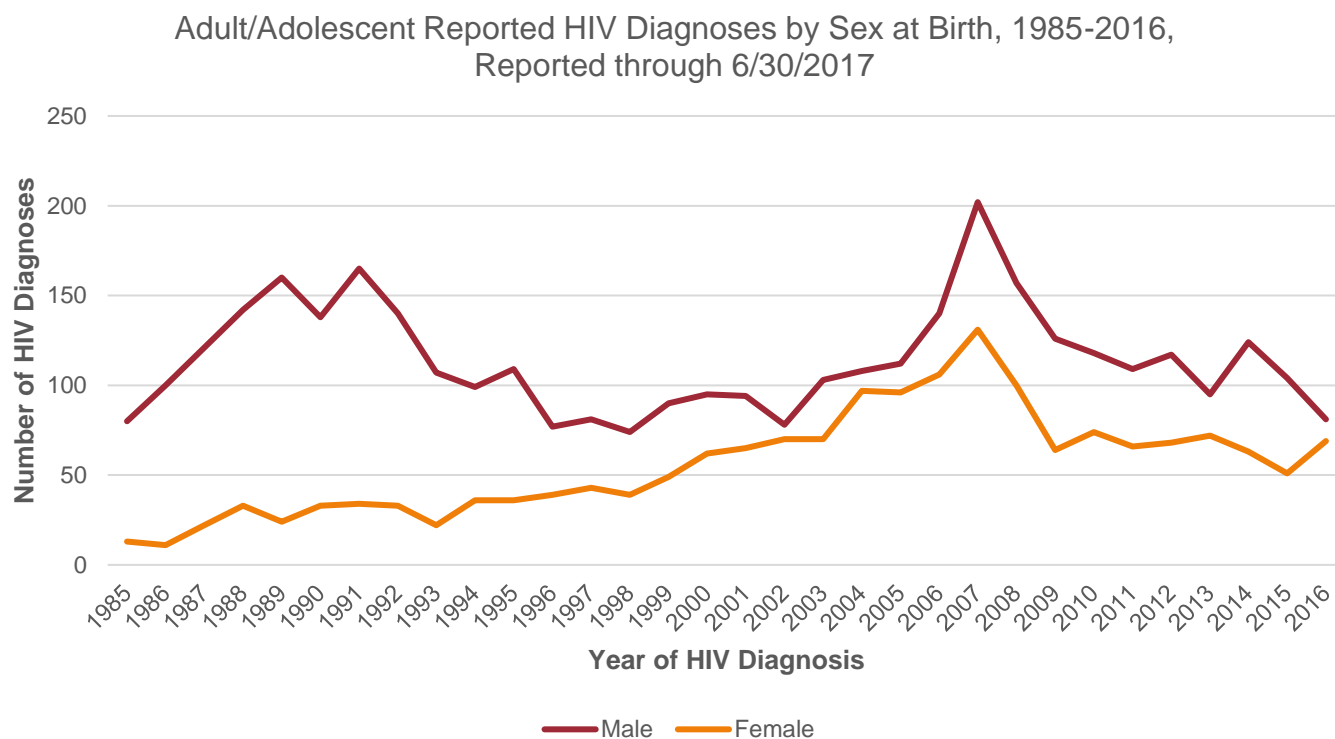
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31<sup>st</sup> of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2016, as Reported through 6/30/2017



YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES	YEAR	LIVING HIV CASES WITHOUT AIDS	LIVING HIV CASES WITH AIDS	TOTAL LIVING HIV CASES
1985	84	21	105	2001	553	851	1,404
1986	144	49	193	2002	578	941	1,519
1987	204	86	290	2003	617	1,041	1,658
1988	289	133	422	2004	667	1,155	1,822
1989	360	174	534	2005	729	1,245	1,974
1990	430	203	633	2006	836	1,344	2,180
1991	498	253	751	2007	1,033	1,441	2,474
1992	538	285	823	2008	1,167	1,530	2,697
1993	504	333	837	2009	1,264	1,595	2,859
1994	464	406	870	2010	1,353	1,662	3,015
1995	423	474	897	2011	1,446	1,706	3,152
1996	421	511	932	2012	1,527	1,770	3,297
1997	439	568	1,007	2013	1,586	1,843	3,429
1998	445	629	1,074	2014	1,686	1,906	3,592
1999	472	691	1,163	2015	1,757	1,947	3,704
2000	512	769	1,281	2016	1,845	2,000	3,845

### Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2016, Reported through 6/30/2017

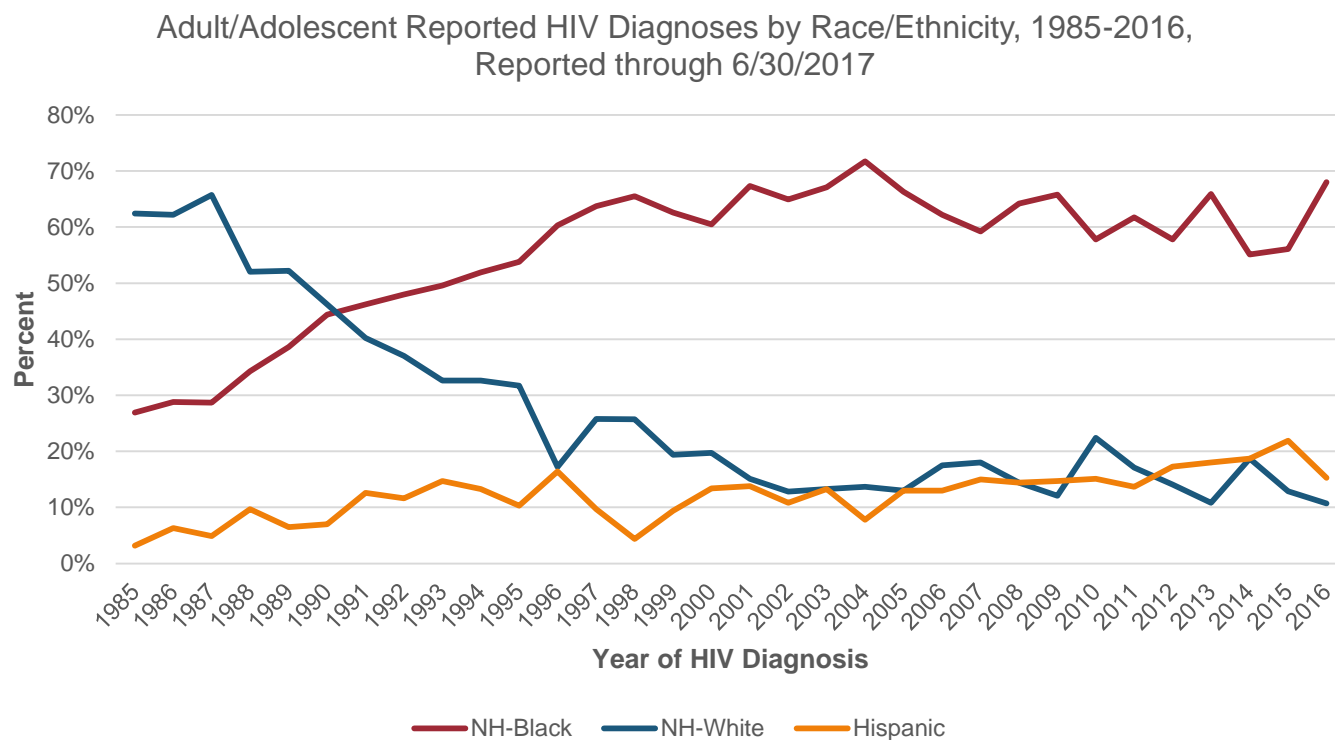
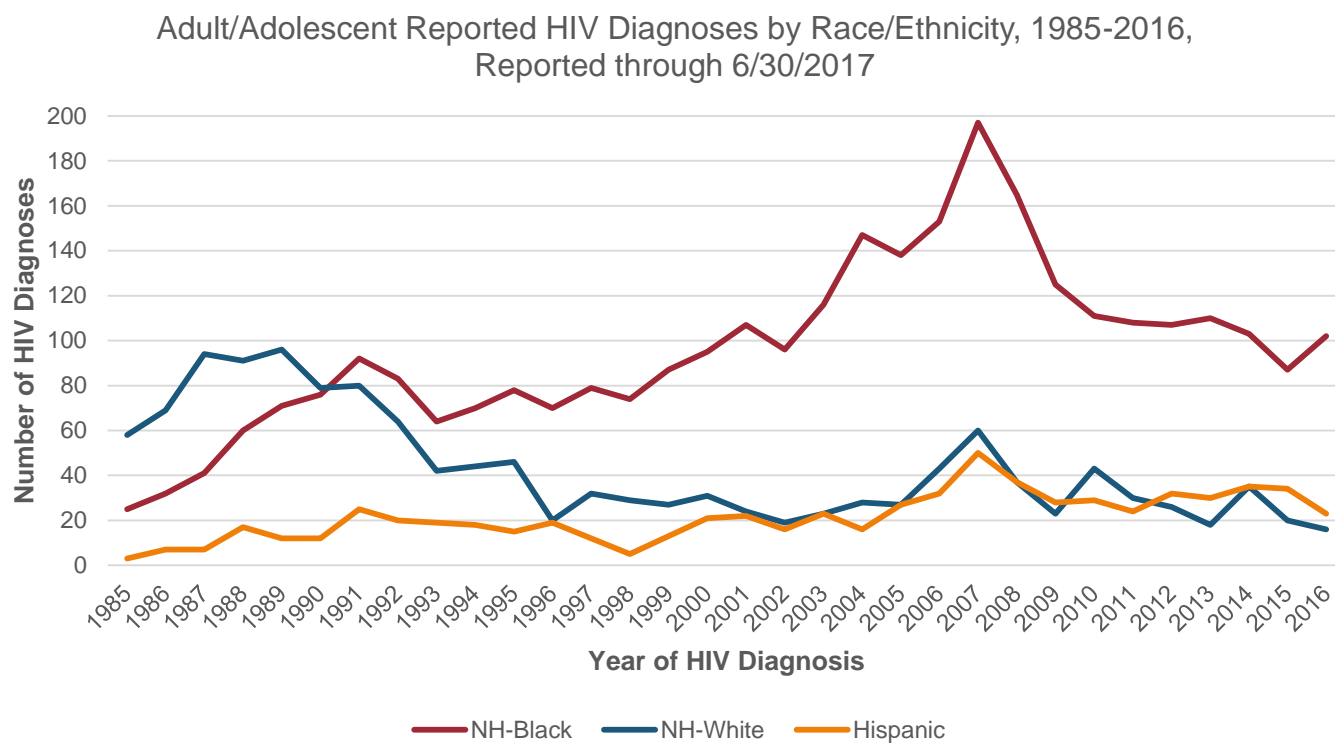
Number and Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017



ADULT/ADOLESCENT REPORTED HIV DIAGNOSES					
YEAR OF HIV DIAGNOSIS	No.	SEX AT BIRTH			
		Male		Female	
		No.	%	No.	%
<1985	38	35	92.1%	3	7.9%
1985	93	80	86.0%	13	14.0%
1986	111	100	90.1%	11	9.9%
1987	143	121	84.6%	22	15.4%
1988	175	142	81.1%	33	18.9%
1989	184	160	87.0%	24	13.0%
1990	171	138	80.7%	33	19.3%
1991	199	165	82.9%	34	17.1%
1992	173	140	80.9%	33	19.1%
1993	129	107	82.9%	22	17.1%
1994	135	99	73.3%	36	26.7%
1995	145	109	75.2%	36	24.8%
1996	116	77	66.4%	39	33.6%
1997	124	81	65.3%	43	34.7%
1998	113	74	65.5%	39	34.5%
1999	139	90	64.7%	49	35.3%
2000	157	95	60.5%	62	39.5%
2001	159	94	59.1%	65	40.9%
2002	148	78	52.7%	70	47.3%
2003	173	103	59.5%	70	40.5%
2004	205	108	52.7%	97	47.3%
2005	208	112	53.8%	96	46.2%
2006	246	140	56.9%	106	43.1%
2007	333	202	60.7%	131	39.3%
2008	257	157	61.1%	100	38.9%
2009	190	126	66.3%	64	33.7%
2010	192	118	61.5%	74	38.5%
2011	175	109	62.3%	66	37.7%
2012	185	117	63.2%	68	36.8%
2013	167	95	56.9%	72	43.1%
2014	187	124	66.3%	63	33.7%
2015	155	104	67.1%	51	32.9%
2016	150	81	54.0%	69	46.0%
TOTAL	5,475	3,681	67.2%	1,794	32.8%

## Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2016, Reported through 6/30/2017

Number and Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017



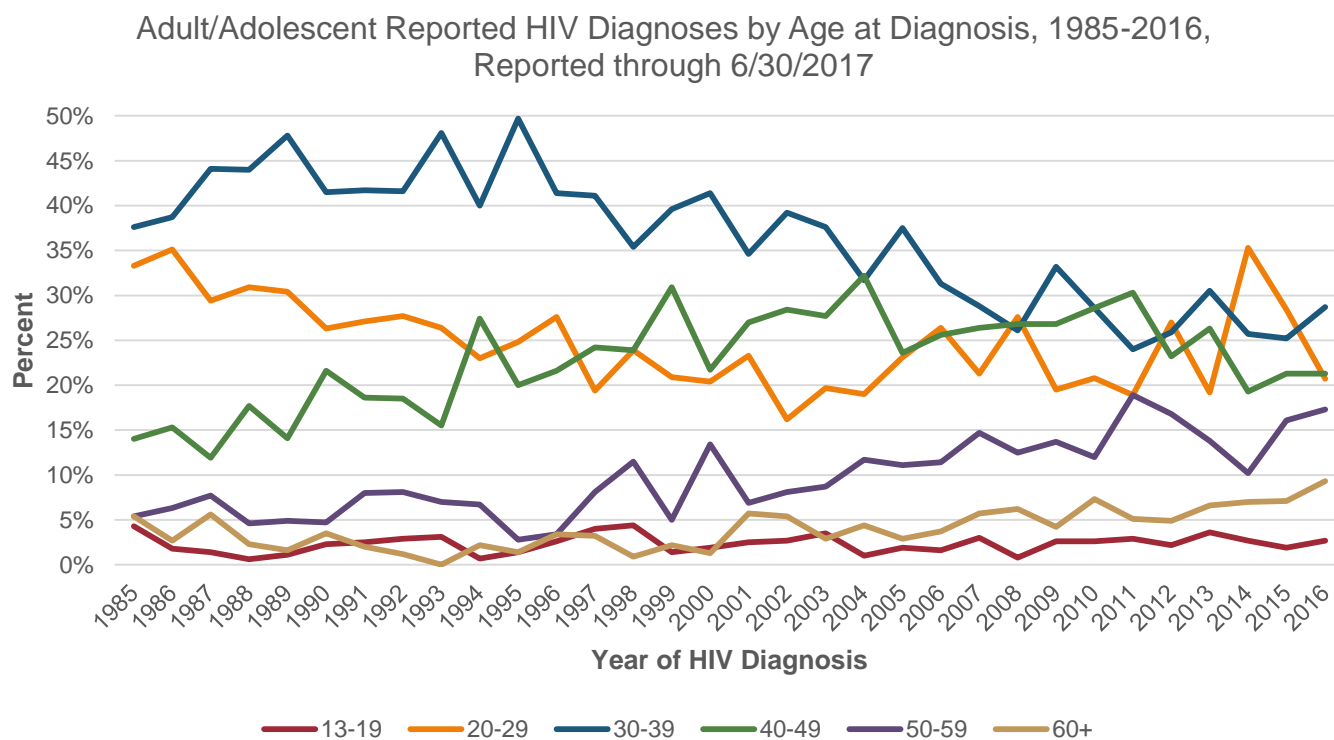
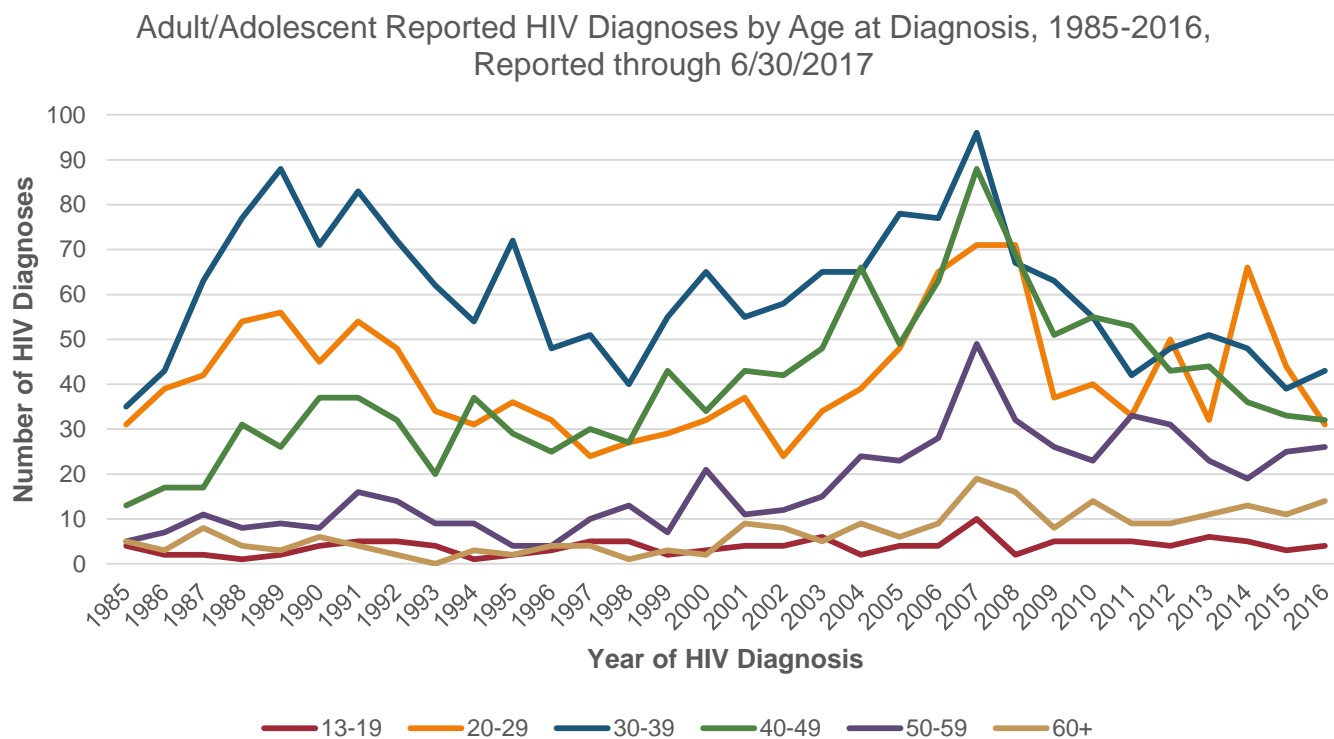
Non-Hispanic Other race not shown

YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES								
	No.	RACE/ETHNICITY							
		Hispanic		Non-Hispanic Black, only		Non-Hispanic White, only		Non-Hispanic Other Race	
		No.	%	No.	%	No.	%	No.	%
<1985	38	2	5.3%	14	36.8%	20	52.6%	2	5.3%
1985	93	3	3.2%	25	26.9%	58	62.4%	7	7.5%
1986	111	7	6.3%	32	28.8%	69	62.2%	3	2.7%
1987	143	7	4.9%	41	28.7%	94	65.7%	1	0.7%
1988	175	17	9.7%	60	34.3%	91	52.0%	7	4.0%
1989	184	12	6.5%	71	38.6%	96	52.2%	5	2.7%
1990	171	12	7.0%	76	44.4%	79	46.2%	4	2.3%
1991	199	25	12.6%	92	46.2%	80	40.2%	2	1.0%
1992	173	20	11.6%	83	48.0%	64	37.0%	6	3.5%
1993	129	19	14.7%	64	49.6%	42	32.6%	4	3.1%
1994	135	18	13.3%	70	51.9%	44	32.6%	3	2.2%
1995	145	15	10.3%	78	53.8%	46	31.7%	6	4.1%
1996	116	19	16.4%	70	60.3%	20	17.2%	7	6.0%
1997	124	12	9.7%	79	63.7%	32	25.8%	1	0.8%
1998	113	5	4.4%	74	65.5%	29	25.7%	5	4.4%
1999	139	13	9.4%	87	62.6%	27	19.4%	12	8.6%
2000	157	21	13.4%	95	60.5%	31	19.7%	10	6.4%
2001	159	22	13.8%	107	67.3%	24	15.1%	6	3.8%
2002	148	16	10.8%	96	64.9%	19	12.8%	17	11.5%
2003	173	23	13.3%	116	67.1%	23	13.3%	11	6.4%
2004	205	16	7.8%	147	71.7%	28	13.7%	14	6.8%
2005	208	27	13.0%	138	66.3%	27	13.0%	16	7.7%
2006	246	32	13.0%	153	62.2%	43	17.5%	18	7.3%
2007	333	50	15.0%	197	59.2%	60	18.0%	26	7.8%
2008	257	37	14.4%	165	64.2%	37	14.4%	18	7.0%
2009	190	28	14.7%	125	65.8%	23	12.1%	14	7.4%
2010	192	29	15.1%	111	57.8%	43	22.4%	9	4.7%
2011	175	24	13.7%	108	61.7%	30	17.1%	13	7.4%
2012	185	32	17.3%	107	57.8%	26	14.1%	20	10.8%
2013	167	30	18.0%	110	65.9%	18	10.8%	9	5.4%
2014	187	35	18.7%	103	55.1%	35	18.7%	14	7.5%
2015	155	34	21.9%	87	56.1%	20	12.9%	14	9.0%
2016	150	23	15.3%	102	68.0%	16	10.7%	9	6.0%
TOTAL	5,475	685	12.5%	3,083	56.3%	1,394	25.5%	313	5.7%



## Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2016, Reported through 6/30/2017

Number and Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017

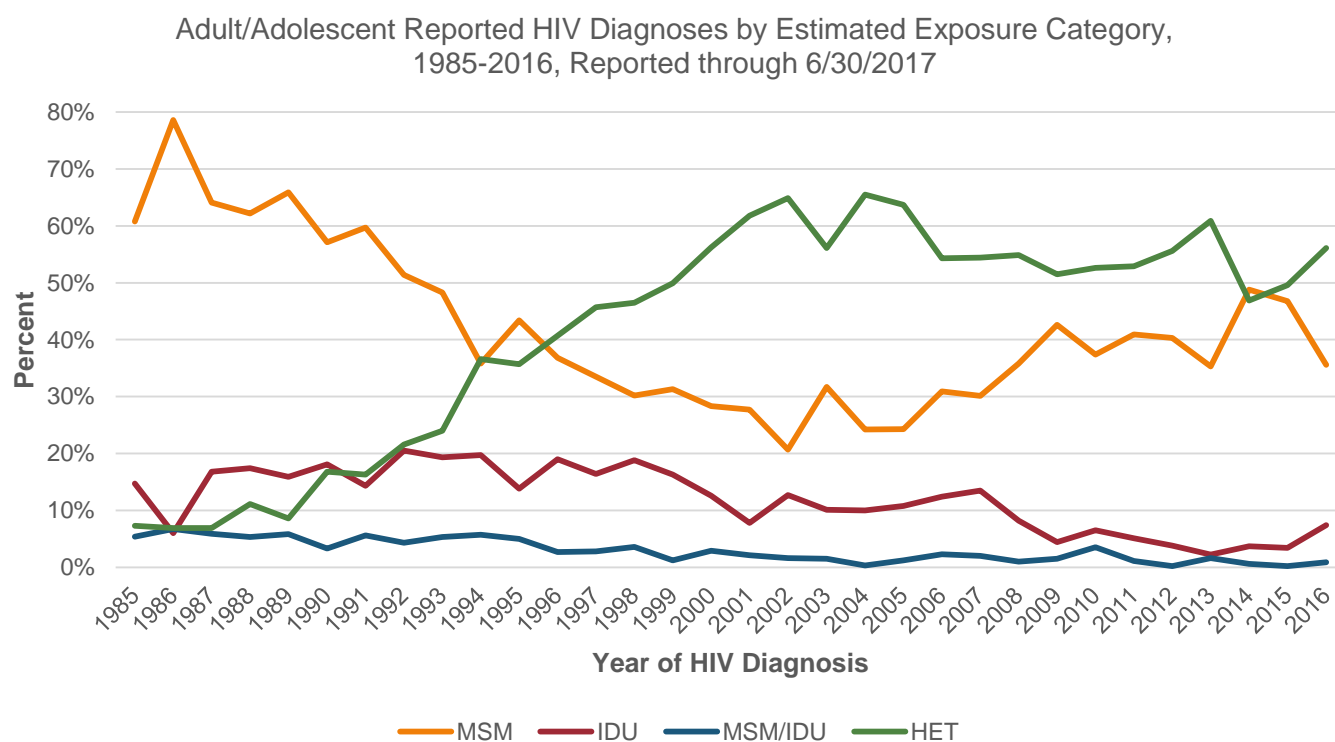
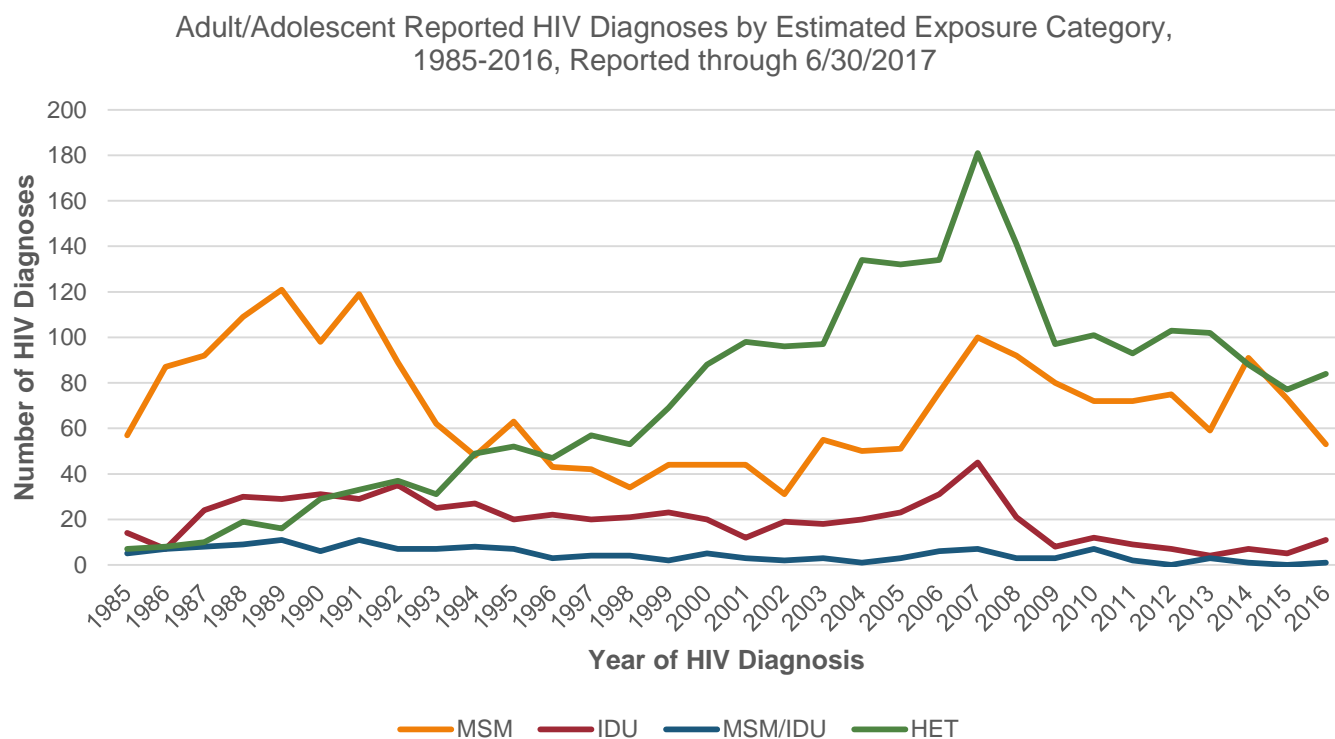


**REPORTED ADULT/ADOLESCENT HIV DIAGNOSES**

YEAR OF HIV DIAGNOSIS	No.	AGE AT HIV DIAGNOSIS											
		Age 13-19		Age 20-29		Age 30-39		Age 40-49		Age 50-59		Age 60+	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
<1985	38	3	7.9%	11	28.9%	12	31.6%	7	18.4%	3	7.9%	2	5.3%
1985	93	4	4.3%	31	33.3%	35	37.6%	13	14.0%	5	5.4%	5	5.4%
1986	111	2	1.8%	39	35.1%	43	38.7%	17	15.3%	7	6.3%	3	2.7%
1987	143	2	1.4%	42	29.4%	63	44.1%	17	11.9%	11	7.7%	8	5.6%
1988	175	1	0.6%	54	30.9%	77	44.0%	31	17.7%	8	4.6%	4	2.3%
1989	184	2	1.1%	56	30.4%	88	47.8%	26	14.1%	9	4.9%	3	1.6%
1990	171	4	2.3%	45	26.3%	71	41.5%	37	21.6%	8	4.7%	6	3.5%
1991	199	5	2.5%	54	27.1%	83	41.7%	37	18.6%	16	8.0%	4	2.0%
1992	173	5	2.9%	48	27.7%	72	41.6%	32	18.5%	14	8.1%	2	1.2%
1993	129	4	3.1%	34	26.4%	62	48.1%	20	15.5%	9	7.0%	0	0.0%
1994	135	1	0.7%	31	23.0%	54	40.0%	37	27.4%	9	6.7%	3	2.2%
1995	145	2	1.4%	36	24.8%	72	49.7%	29	20.0%	4	2.8%	2	1.4%
1996	116	3	2.6%	32	27.6%	48	41.4%	25	21.6%	4	3.4%	4	3.4%
1997	124	5	4.0%	24	19.4%	51	41.1%	30	24.2%	10	8.1%	4	3.2%
1998	113	5	4.4%	27	23.9%	40	35.4%	27	23.9%	13	11.5%	1	0.9%
1999	139	2	1.4%	29	20.9%	55	39.6%	43	30.9%	7	5.0%	3	2.2%
2000	157	3	1.9%	32	20.4%	65	41.4%	34	21.7%	21	13.4%	2	1.3%
2001	159	4	2.5%	37	23.3%	55	34.6%	43	27.0%	11	6.9%	9	5.7%
2002	148	4	2.7%	24	16.2%	58	39.2%	42	28.4%	12	8.1%	8	5.4%
2003	173	6	3.5%	34	19.7%	65	37.6%	48	27.7%	15	8.7%	5	2.9%
2004	205	2	1.0%	39	19.0%	65	31.7%	66	32.2%	24	11.7%	9	4.4%
2005	208	4	1.9%	48	23.1%	78	37.5%	49	23.6%	23	11.1%	6	2.9%
2006	246	4	1.6%	65	26.4%	77	31.3%	63	25.6%	28	11.4%	9	3.7%
2007	333	10	3.0%	71	21.3%	96	28.8%	88	26.4%	49	14.7%	19	5.7%
2008	257	2	0.8%	71	27.6%	67	26.1%	69	26.8%	32	12.5%	16	6.2%
2009	190	5	2.6%	37	19.5%	63	33.2%	51	26.8%	26	13.7%	8	4.2%
2010	192	5	2.6%	40	20.8%	55	28.6%	55	28.6%	23	12.0%	14	7.3%
2011	175	5	2.9%	33	18.9%	42	24.0%	53	30.3%	33	18.9%	9	5.1%
2012	185	4	2.2%	50	27.0%	48	25.9%	43	23.2%	31	16.8%	9	4.9%
2013	167	6	3.6%	32	19.2%	51	30.5%	44	26.3%	23	13.8%	11	6.6%
2014	187	5	2.7%	66	35.3%	48	25.7%	36	19.3%	19	10.2%	13	7.0%
2015	155	3	1.9%	44	28.4%	39	25.2%	33	21.3%	25	16.1%	11	7.1%
2016	150	4	2.7%	31	20.7%	43	28.7%	32	21.3%	26	17.3%	14	9.3%
TOTAL	5,475	126	2.3%	1,347	24.6%	1,941	35.5%	1,277	23.3%	558	10.2%	226	4.1%

## Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Estimated Exposure Category, 1985-2016, Reported through 6/30/2017

Number and Percent by Estimated Exposure Category<sup>§</sup> of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2016, as Reported through 6/30/2017



Other Exposure Category not shown

§ Multiple imputation was used to estimate and adjust for missing transmission category.

YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES											
	No.**	% with No Reported Exposure*	ESTIMATED EXPOSURE CATEGORY§									
			MSM		IDU		MSM/IDU		HET		Other Exposure	
			No.	%	No.	%	No.	%	No.	%	No.	%
<1985	38	10.5%	27	70.8%	5	11.8%	2	6.3%	2	5.8%	2	5.3%
1985	93	5.4%	57	60.8%	14	14.7%	5	5.4%	7	7.3%	11	11.8%
1986	111	4.5%	87	78.6%	7	6.0%	7	6.7%	8	6.9%	2	1.8%
1987	143	5.6%	92	64.1%	24	16.8%	8	5.9%	10	6.9%	9	6.3%
1988	175	11.4%	109	62.2%	30	17.4%	9	5.3%	19	11.1%	7	4.0%
1989	184	8.7%	121	65.9%	29	15.9%	11	5.8%	16	8.6%	7	3.8%
1990	171	8.8%	98	57.1%	31	18.1%	6	3.3%	29	16.8%	8	4.7%
1991	199	13.1%	119	59.7%	29	14.3%	11	5.6%	33	16.3%	8	4.0%
1992	173	14.5%	89	51.4%	35	20.5%	7	4.3%	37	21.6%	4	2.3%
1993	129	12.4%	62	48.3%	25	19.3%	7	5.3%	31	24.0%	4	3.1%
1994	135	14.1%	48	35.8%	27	19.7%	8	5.7%	49	36.6%	3	2.2%
1995	145	13.8%	63	43.4%	20	13.8%	7	5.0%	52	35.7%	3	2.1%
1996	116	18.1%	43	36.8%	22	19.0%	3	2.7%	47	40.7%	1	0.9%
1997	124	16.1%	42	33.5%	20	16.4%	4	2.8%	57	45.7%	2	1.6%
1998	113	11.5%	34	30.2%	21	18.8%	4	3.6%	53	46.5%	1	0.9%
1999	139	14.4%	44	31.3%	23	16.3%	2	1.2%	69	49.9%	2	1.4%
2000	157	19.7%	44	28.3%	20	12.6%	5	2.9%	88	56.2%	0	0.0%
2001	159	19.5%	44	27.7%	12	7.8%	3	2.1%	98	61.8%	1	0.6%
2002	148	20.9%	31	20.7%	19	12.7%	2	1.6%	96	64.9%	0	0.0%
2003	173	13.9%	55	31.7%	18	10.1%	3	1.5%	97	56.1%	1	0.6%
2004	205	19.0%	50	24.2%	20	10.0%	1	0.3%	134	65.5%	0	0.0%
2005	208	16.3%	51	24.3%	23	10.8%	3	1.2%	132	63.7%	0	0.0%
2006	246	30.9%	76	30.9%	31	12.4%	6	2.3%	134	54.3%	0	0.0%
2007	333	36.0%	100	30.1%	45	13.5%	7	2.0%	181	54.4%	0	0.0%
2008	257	46.7%	92	35.8%	21	8.2%	3	1.0%	141	54.9%	0	0.0%
2009	190	36.8%	80	42.6%	8	4.4%	3	1.5%	97	51.5%	0	0.0%
2010	192	46.9%	72	37.4%	12	6.5%	7	3.5%	101	52.6%	0	0.0%
2011	175	44.6%	72	40.9%	9	5.1%	2	1.1%	93	52.9%	0	0.0%
2012	185	25.4%	75	40.3%	7	3.8%	0	0.2%	103	55.6%	0	0.0%
2013	167	21.0%	59	35.3%	4	2.2%	3	1.6%	102	60.9%	0	0.0%
2014	187	20.9%	91	48.8%	7	3.7%	1	0.6%	88	46.9%	0	0.0%
2015	155	19.4%	73	46.8%	5	3.4%	0	0.2%	77	49.6%	0	0.0%
2016	150	38.0%	53	35.6%	11	7.4%	1	0.9%	84	56.1%	0	0.0%
TOTAL	5,475	22.0%	2,250	41.1%	633	11.6%	150	2.7%	2,364	43.2%	76	1.4%

§ Multiple imputation was used to estimate and adjust for missing transmission category.

\*Percent with no reported exposure prior to multiple imputation adjustment.

\*\* Discrepancies in the table between total HIV diagnoses and the sums by exposure category are due to less than 1% of cases missing transmission category after multiple imputation.

## Section III – Adult/Adolescent Cases by Jurisdiction

**Table 1 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017**

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
20705	156	0	0.0%	0.0	--	--	--	--	--
20707	286	0	0.0%	0.0	--	--	--	--	--
20777	42	0	0.0%	0.0	--	--	--	--	--
20812	219	0	0.0%	0.0	--	--	--	--	--
20814	25,715	2	1.3%	7.8	***	***	***	***	***
20815	26,661	1	0.7%	3.8	***	***	***	***	***
20816	14,196	0	0.0%	0.0	--	--	--	--	--
20817	31,922	4	2.7%	12.5	***	***	***	***	***
20818	1,796	0	0.0%	0.0	--	--	--	--	--
20832	22,322	1	0.7%	4.5	***	***	***	***	***
20833	6,709	0	0.0%	0.0	--	--	--	--	--
20837	5,197	0	0.0%	0.0	--	--	--	--	--
20838	237	0	0.0%	0.0	--	--	--	--	--
20839	200	0	0.0%	0.0	--	--	--	--	--
20841	8,812	1	0.7%	11.3	***	***	***	***	***
20842	1,388	0	0.0%	0.0	--	--	--	--	--
20850	41,914	3	2.0%	7.2	***	***	***	***	***
20851	12,926	3	2.0%	23.2	***	***	***	***	***
20852	37,941	6	4.0%	15.8	***	***	***	83.3%	335
20853	26,714	0	0.0%	0.0	--	--	--	--	--
20854	44,437	2	1.3%	4.5	***	***	***	***	***
20855	13,128	1	0.7%	7.6	***	***	***	***	***
20860	2,188	***	***	***	***	***	***	***	***
20861	1,708	0	0.0%	0.0	--	--	--	--	--
20862	329	0	0.0%	0.0	--	--	--	--	--
20866	11,737	3	2.0%	25.6	***	***	***	***	***
20868	713	***	***	***	***	***	***	***	***
20871	10,373	2	1.3%	19.3	***	***	***	***	***
20872	11,516	0	0.0%	0.0	--	--	--	--	--
20874	49,821	13	8.7%	26.1	84.6%	92.3%	46.2%	92.3%	169
20876	21,903	1	0.7%	4.6	***	***	***	***	***
20877	30,158	1	0.7%	3.3	***	***	***	***	***
20878	55,015	9	6.0%	16.4	100.0%	100.0%	***	88.9%	418
20879	21,444	5	3.3%	23.3	100.0%	100.0%	***	100.0%	282
20880	425	0	0.0%	0.0	--	--	--	--	--
20882	12,640	0	0.0%	0.0	--	--	--	--	--
20886	29,446	6	4.0%	20.4	***	***	***	***	***
20895	16,718	1	0.7%	6.0	***	***	***	***	***
20896	805	0	0.0%	0.0	--	--	--	--	--
20899	149	0	0.0%	0.0	--	--	--	--	--
20901	30,587	14	9.3%	45.8	85.7%	85.7%	35.7%	85.7%	250
20902	43,072	11	7.3%	25.5	81.8%	90.9%	***	90.9%	419

20903	15,805	4	2.7%	25.3	***	***	***	***	***
20904	48,683	21	14.0%	43.1	76.2%	90.5%	23.8%	95.2%	472
20905	16,454	2	1.3%	12.2	***	***	***	***	***
20906	59,027	13	8.7%	22.0	84.6%	84.6%	38.5%	84.6%	360
20910	35,108	15	10.0%	42.7	73.3%	86.7%	***	93.3%	529
20912	19,073	1	0.7%	5.2	***	***	***	***	***
21771	231	0	0.0%	0.0	--	--	--	--	--
Unknown	--	2	1.3%	--	100.0%	100.0%	50.0%	100.0%	281
<b>TOTAL</b>	868,044	150	100.0%	17.3	78.7%	84.7%	24.0%	86.7%	354

\*\*\* Data withheld due to low population counts and/or case counts

**Jurisdiction of Residence at HIV Diagnosis:** Jurisdiction of residence at time of initial HIV diagnosis.

**Population Age 13+:** Population age 13 years or older, estimate for 7/1/2016.

**Adult/Adolescent Reported HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Rate:** Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

**Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

**Late HIV Diagnosis:** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

**First CD4 Test Result Percent:** Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

**First CD4 Test Result Median Count:** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**Table 2 – Adult/Adolescent AIDS Diagnoses during 2016, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through 6/30/2017**

JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
20705	156	0	0.0%	0.0	--	--
20707	286	0	0.0%	0.0	--	--
20777	42	0	0.0%	0.0	--	--
20812	219	0	0.0%	0.0	--	--
20814	25,715	0	0.0%	0.0	--	--
20815	26,661	0	0.0%	0.0	--	--
20816	14,196	0	0.0%	0.0	--	--
20817	31,922	0	0.0%	0.0	--	--
20818	1,796	0	0.0%	0.0	--	--
20832	22,322	1	1.6%	4.5	***	***
20833	6,709	0	0.0%	0.0	--	--
20837	5,197	0	0.0%	0.0	--	--
20838	237	0	0.0%	0.0	--	--
20839	200	0	0.0%	0.0	--	--
20841	8,812	0	0.0%	0.0	--	--
20842	1,388	0	0.0%	0.0	--	--
20850	41,914	1	1.6%	2.4	***	***
20851	12,926	2	3.2%	15.5	***	***
20852	37,941	3	4.8%	7.9	***	***
20853	26,714	1	1.6%	3.7	***	***
20854	44,437	2	3.2%	4.5	***	***
20855	13,128	1	1.6%	7.6	***	***
20860	2,188	1	1.6%	45.7	***	***
20861	1,708	0	0.0%	0.0	--	--
20862	329	0	0.0%	0.0	--	--
20866	11,737	0	0.0%	0.0	--	--
20868	713	0	0.0%	0.0	--	--
20871	10,373	1	1.6%	9.6	***	***
20872	11,516	0	0.0%	0.0	--	--
20874	49,821	8	12.7%	16.1	2.6	75.0%
20876	21,903	2	3.2%	9.1	***	***
20877	30,158	1	1.6%	3.3	***	***
20878	55,015	1	1.6%	1.8	***	***
20879	21,444	3	4.8%	14.0	***	***
20880	425	0	0.0%	0.0	--	--
20882	12,640	0	0.0%	0.0	--	--
20886	29,446	1	1.6%	3.4	***	***
20895	16,718	1	1.6%	6.0	***	***
20896	805	0	0.0%	0.0	--	--
20899	149	0	0.0%	0.0	--	--
20901	30,587	5	7.9%	16.3	0.0	100.0%
20902	43,072	4	6.3%	9.3	***	***
20903	15,805	0	0.0%	0.0	--	--
20904	48,683	9	14.3%	18.5	4.5	55.6%
20905	16,454	1	1.6%	6.1	***	***



20906	59,027	7	11.1%	11.9	4.0	42.9%
20910	35,108	5	7.9%	14.2	3.8	40.0%
20912	19,073	1	1.6%	5.2	***	***
21771	231	0	0.0%	0.0	--	--
Unknown	--	1	1.6%	--	0.0	100.0%
<b>TOTAL</b>	<b>868,044</b>	<b>63</b>	<b>100.0%</b>	<b>7.3</b>	<b>3.0</b>	<b>57.1%</b>

\*\*\* Data withheld due to low population counts and/or case counts

**Jurisdiction of Residence at AIDS Diagnosis:** Jurisdiction of residence at time of initial AIDS diagnosis.

**Population Age 13+:** Population age 13 years or older, estimate for 7/1/2016.

**Adult/Adolescent Reported AIDS Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

**Rate:** Number of adult/adolescent AIDS diagnoses divided by the population age 13 years or older and multiplied by 100,000.

**Mean Years from HIV Diagnosis:** Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

**Percent Late HIV Diagnosis:** Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

**Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis, Reported through 6/30/2017**

JURISDICTION OF RESIDENCE AT DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
20705	156	***	***	***	***	***	***	***	***	***	***
20707	286	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20777	42	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20812	219	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20814	25,715	39	2.1%	151.7	22	1.1%	85.6	61	1.6%	237.2	421
20815	26,661	20	1.1%	75.0	19	1.0%	71.3	39	1.0%	146.3	683
20816	14,196	18	1.0%	126.8	8	0.4%	56.4	26	0.7%	183.1	546
20817	31,922	27	1.5%	84.6	15	0.8%	47.0	42	1.1%	131.6	760
20818	1,796	3	0.2%	167.0	2	0.1%	111.3	5	0.1%	278.3	359
20832	22,322	15	0.8%	67.2	8	0.4%	35.8	23	0.6%	103.0	970
20833	6,709	5	0.3%	74.5	3	0.2%	44.7	8	0.2%	119.3	838
20837	5,197	2	0.1%	38.5	3	0.2%	57.7	5	0.1%	96.2	1,039
20838	237	***	***	***	***	***	***	***	***	***	***
20839	200	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20841	8,812	8	0.4%	90.8	3	0.2%	34.0	11	0.3%	124.8	801
20842	1,388	0	0.0%	0.0	1	0.1%	72.0	1	0.0%	72.0	1,388
20850	41,914	75	4.1%	178.9	61	3.1%	145.5	136	3.6%	324.5	308
20851	12,926	31	1.7%	239.8	11	0.6%	85.1	42	1.1%	324.9	307
20852	37,941	71	3.9%	187.1	52	2.6%	137.1	123	3.2%	324.2	308
20853	26,714	28	1.5%	104.8	38	1.9%	142.2	66	1.7%	247.1	404
20854	44,437	37	2.0%	83.3	19	1.0%	42.8	56	1.5%	126.0	793
20855	13,128	15	0.8%	114.3	18	0.9%	137.1	33	0.9%	251.4	397
20860	2,188	1	0.1%	45.7	5	0.3%	228.6	6	0.2%	274.3	364
20861	1,708	2	0.1%	117.1	3	0.2%	175.6	5	0.1%	292.7	341
20862	329	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20866	11,737	35	1.9%	298.2	32	1.6%	272.6	67	1.8%	570.8	175
20868	713	***	***	***	***	***	***	***	***	***	***
20871	10,373	6	0.3%	57.8	12	0.6%	115.7	18	0.5%	173.5	576
20872	11,516	10	0.6%	86.8	8	0.4%	69.5	18	0.5%	156.3	639
20874	49,821	119	6.5%	238.9	98	4.9%	196.7	217	5.7%	435.6	229
20876	21,903	34	1.9%	155.2	28	1.4%	127.8	62	1.6%	283.1	353
20877	30,158	69	3.8%	228.8	104	5.2%	344.9	173	4.6%	573.6	174
20878	55,015	56	3.1%	101.8	69	3.5%	125.4	125	3.3%	227.2	440
20879	21,444	36	2.0%	167.9	51	2.6%	237.8	87	2.3%	405.7	246
20880	425	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20882	12,640	12	0.7%	94.9	6	0.3%	47.5	18	0.5%	142.4	702
20886	29,446	50	2.8%	169.8	68	3.4%	230.9	118	3.1%	400.7	249
20895	16,718	19	1.0%	113.6	28	1.4%	167.5	47	1.2%	281.1	355
20896	805	0	0.0%	0.0	0	0.0%	0.0	0	0.0%	0.0	--
20899	149	***	***	***	***	***	***	***	***	***	***
20901	30,587	93	5.1%	304.1	104	5.2%	340.0	197	5.2%	644.1	155
20902	43,072	134	7.4%	311.1	152	7.7%	352.9	286	7.5%	664.0	150
20903	15,805	65	3.6%	411.3	90	4.5%	569.4	155	4.1%	980.7	101
20904	48,683	193	10.6%	396.4	230	11.6%	472.4	423	11.1%	868.9	115
20905	16,454	15	0.8%	91.2	24	1.2%	145.9	39	1.0%	237.0	421
20906	59,027	160	8.8%	271.1	186	9.4%	315.1	346	9.1%	586.2	170

20910	35,108	174	9.6%	495.6	184	9.3%	524.1	358	9.4%	1,019.7	98
20912	19,073	105	5.8%	550.5	172	8.7%	901.8	277	7.3%	1,452.3	68
21771	231	***	***	***	***	***	***	***	***	***	***
Unknown	--	29	1.6%	--	42	2.1%	--	71	1.9%	--	--
<b>TOTAL</b>	868,044	1,818	100.0%	209.4	1,981	100.0%	228.2	3,799	100.0%	437.7	228

\*\*\* Data withheld due to low population counts and/or case counts

**Jurisdiction of Residence at Diagnosis:** Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2016.

**Adult/Adolescent Living HIV Cases without AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Living HIV Cases with AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Rate:** Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Table 4 – Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Residence at Diagnosis or Current Residence, Reported through 6/30/2017**

ADULT/ADOLESCENT TOTAL LIVING HIV CASES										
JURISDICTION OF RESIDENCE	POPULATION AGE 13+	Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
20705	156	***	***	***	***	***	***	***	***	***
20707	286	0	0.0%	0.0	--	0	0.0%	0.0	--	--
20777	42	0	0.0%	0.0	--	0	0.0%	0.0	--	--
20812	219	0	0.0%	0.0	--	0	0.0%	0.0	--	--
20814	25,715	61	1.6%	237.2	421	60	1.9%	233.3	428	-1.6%
20815	26,661	39	1.0%	146.3	683	30	0.9%	112.5	888	-23.1%
20816	14,196	26	0.7%	183.1	546	24	0.7%	169.1	591	-7.7%
20817	31,922	42	1.1%	131.6	760	39	1.2%	122.2	818	-7.1%
20818	1,796	5	0.1%	278.3	359	1	0.0%	55.7	1,796	-80.0%
20832	22,322	23	0.6%	103.0	970	36	1.1%	161.3	620	56.5%
20833	6,709	8	0.2%	119.3	838	9	0.3%	134.2	745	12.5%
20837	5,197	5	0.1%	96.2	1,039	8	0.2%	153.9	649	60.0%
20838	237	***	***	***	***	***	***	***	***	***
20839	200	0	0.0%	0.0	--	0	0.0%	0.0	--	--
20841	8,812	11	0.3%	124.8	801	10	0.3%	113.5	881	-9.1%
20842	1,388	1	0.0%	72.0	1,388	2	0.1%	144.1	694	100.0%
20850	41,914	136	3.6%	324.5	308	102	3.2%	243.4	410	-25.0%
20851	12,926	42	1.1%	324.9	307	54	1.7%	417.8	239	28.6%
20852	37,941	123	3.2%	324.2	308	103	3.2%	271.5	368	-16.3%
20853	26,714	66	1.7%	247.1	404	77	2.4%	288.2	346	16.7%
20854	44,437	56	1.5%	126.0	793	38	1.2%	85.5	1,169	-32.1%
20855	13,128	33	0.9%	251.4	397	13	0.4%	99.0	1,009	-60.6%
20860	2,188	6	0.2%	274.3	364	4	0.1%	182.8	546	-33.3%
20861	1,708	5	0.1%	292.7	341	5	0.2%	292.7	341	0.0%
20862	329	0	0.0%	0.0	--	0	0.0%	0.0	--	--
20866	11,737	67	1.8%	570.8	175	69	2.1%	587.9	170	3.0%
20868	713	***	***	***	***	***	***	***	***	***
20871	10,373	18	0.5%	173.5	576	25	0.8%	241.0	414	38.9%
20872	11,516	18	0.5%	156.3	639	13	0.4%	112.9	885	-27.8%
20874	49,821	217	5.7%	435.6	229	208	6.5%	417.5	239	-4.1%
20876	21,903	62	1.6%	283.1	353	82	2.5%	374.4	267	32.3%
20877	30,158	173	4.6%	573.6	174	122	3.8%	404.5	247	-29.5%
20878	55,015	125	3.3%	227.2	440	99	3.1%	180.0	555	-20.8%
20879	21,444	87	2.3%	405.7	246	64	2.0%	298.5	335	-26.4%
20880	425	0	0.0%	0.0	--	0	0.0%	0.0	--	--
20882	12,640	18	0.5%	142.4	702	14	0.4%	110.8	902	-22.2%
20886	29,446	118	3.1%	400.7	249	124	3.9%	421.1	237	5.1%
20895	16,718	47	1.2%	281.1	355	38	1.2%	227.3	439	-19.1%
20896	805	***	***	***	***	***	***	***	***	***
20899	149	***	***	***	***	***	***	***	***	***
20901	30,587	197	5.2%	644.1	155	185	5.7%	604.8	165	-6.1%
20902	43,072	286	7.5%	664.0	150	217	6.7%	503.8	198	-24.1%
20903	15,805	155	4.1%	980.7	101	98	3.0%	620.0	161	-36.8%
20904	48,683	423	11.1%	868.9	115	392	12.2%	805.2	124	-7.3%
20905	16,454	39	1.0%	237.0	421	34	1.1%	206.6	483	-12.8%
20906	59,027	346	9.1%	586.2	170	336	10.4%	569.2	175	-2.9%

20910	35,108	358	9.4%	1,019.7	98	275	8.5%	783.3	127	-23.2%
20912	19,073	277	7.3%	1,452.3	68	172	5.3%	901.8	110	-37.9%
21771	231	***	***	***	***	***	***	***	***	***
Unknown	--	71	1.9%	--	--	28	0.9%	--	--	-60.6%
<b>TOTAL</b>	868,044	3,799	100.0%	437.7	228	3,219	100.0%	370.8	269	-15.3%

\*\*\* Data withheld due to low population counts and/or case counts

**Jurisdiction of Residence:** Jurisdiction of residence at diagnosis or current residence.

**Population Age 13+:** Population age 13 years or older, estimate for 7/1/2016.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Residence at Diagnosis:** Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

**Current Residence:** Jurisdiction of residence from the most recent report since 1/1/2009.

**Rate:** Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Percent Change:** The percent change in number of adult/adolescent total living HIV cases from by residence at diagnosis to current residence.

**Table 5 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017**

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
20705	***	***	***	***	***	***	***	***
20707	0	--	--	--	--	--	--	--
20777	0	--	--	--	--	--	--	--
20812	0	--	--	--	--	--	--	--
20814	60	36	60.0%	656	2.8%	8.3%	13.9%	75.0%
20815	30	26	86.7%	537	7.7%	15.4%	19.2%	57.7%
20816	24	16	66.7%	645	0.0%	6.3%	18.8%	75.0%
20817	39	24	61.5%	601	0.0%	20.8%	16.7%	62.5%
20818	1	1	100.0%	770	0.0%	0.0%	0.0%	100.0%
20832	36	25	69.4%	649	0.0%	8.0%	20.0%	72.0%
20833	9	3	33.3%	475	0.0%	33.3%	33.3%	33.3%
20837	8	6	75.0%	635	0.0%	0.0%	33.3%	66.7%
20838	0	--	--	--	--	--	--	--
20839	0	--	--	--	--	--	--	--
20841	10	4	40.0%	539	0.0%	0.0%	0.0%	100.0%
20842	2	2	100.0%	426	0.0%	50.0%	0.0%	50.0%
20850	102	64	62.7%	534	7.8%	17.2%	21.9%	53.1%
20851	54	32	59.3%	628	3.1%	12.5%	21.9%	62.5%
20852	103	63	61.2%	595	6.3%	7.9%	20.6%	65.1%
20853	77	59	76.6%	608	6.8%	13.6%	13.6%	66.1%
20854	38	18	47.4%	524	11.1%	5.6%	27.8%	55.6%
20855	13	11	84.6%	429	9.1%	27.3%	27.3%	36.4%
20860	4	3	75.0%	454	33.3%	0.0%	33.3%	33.3%
20861	5	5	100.0%	721	0.0%	20.0%	0.0%	80.0%
20862	0	--	--	--	--	--	--	--
20866	69	54	78.3%	637	1.9%	13.0%	13.0%	72.2%
20868	***	***	***	***	***	***	***	***
20871	25	21	84.0%	614	4.8%	14.3%	14.3%	66.7%
20872	13	10	76.9%	585	10.0%	10.0%	30.0%	50.0%
20874	208	134	64.4%	544	9.7%	14.2%	22.4%	53.7%
20876	82	50	61.0%	499	14.0%	10.0%	26.0%	50.0%
20877	122	88	72.1%	587	6.8%	13.6%	18.2%	61.4%
20878	99	78	78.8%	667	7.7%	14.1%	10.3%	67.9%
20879	64	50	78.1%	497	12.0%	20.0%	18.0%	50.0%
20880	0	--	--	--	--	--	--	--
20882	14	6	42.9%	569	0.0%	16.7%	16.7%	66.7%
20886	124	91	73.4%	505	8.8%	13.2%	26.4%	51.6%
20895	38	19	50.0%	498	5.3%	15.8%	31.6%	47.4%
20896	***	***	***	***	***	***	***	***
20899	***	***	***	***	***	***	***	***
20901	185	128	69.2%	528	7.8%	16.4%	22.7%	53.1%
20902	217	147	67.7%	524	8.2%	16.3%	19.7%	55.8%
20903	98	69	70.4%	556	4.3%	10.1%	29.0%	56.5%
20904	392	274	69.9%	536	8.0%	16.4%	21.9%	53.6%
20905	34	24	70.6%	617	12.5%	4.2%	16.7%	66.7%
20906	336	211	62.8%	576	9.5%	15.6%	20.4%	54.5%

20910	275	187	68.0%	599	5.9%	14.4%	16.0%	63.6%
20912	172	123	71.5%	493	8.1%	21.1%	22.0%	48.8%
21771	***	***	***	***	***	***	***	***
Unknown	28	17	60.7%	644	11.8%	5.9%	23.5%	58.8%
<b>TOTAL</b>	<b>3,219</b>	<b>2,184</b>	<b>67.8%</b>	<b>561</b>	<b>7.6%</b>	<b>14.6%</b>	<b>20.2%</b>	<b>57.6%</b>

\*\*\* Data withheld due to low population counts and/or case counts

**Jurisdiction of Current Residence:** Jurisdiction of residence from the most recent report since 1/1/2009.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year.

**With Test:** Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

**Median Count:** Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).



**Table 6 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Jurisdiction of Current Residence, Reported through 6/30/2017**

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
20705	***	***	***	***	***
20707	0	--	--	--	--
20777	0	--	--	--	--
20812	0	--	--	--	--
20814	60	38	63.3%	97.4%	125,893
20815	30	26	86.7%	84.6%	918
20816	24	17	70.8%	94.1%	1,585
20817	39	23	59.0%	95.7%	13,200
20818	1	1	100.0%	100.0%	--
20832	36	25	69.4%	96.0%	32,600
20833	9	2	22.2%	100.0%	--
20837	8	6	75.0%	83.3%	210
20838	0	--	--	--	--
20839	0	--	--	--	--
20841	10	6	60.0%	83.3%	8,308
20842	2	2	100.0%	100.0%	--
20850	102	63	61.8%	87.3%	3,818
20851	54	38	70.4%	84.2%	24,014
20852	103	63	61.2%	90.5%	2,450
20853	77	59	76.6%	88.1%	4,290
20854	38	17	44.7%	82.4%	6,539
20855	13	10	76.9%	90.0%	480
20860	4	3	75.0%	66.7%	260
20861	5	5	100.0%	100.0%	--
20862	0	--	--	--	--
20866	69	55	79.7%	83.6%	1,570
20868	***	***	***	***	***
20871	25	21	84.0%	95.2%	17,500
20872	13	10	76.9%	70.0%	661
20874	208	133	63.9%	84.2%	5,840
20876	82	48	58.5%	85.4%	7,943
20877	122	89	73.0%	95.5%	16,359
20878	99	78	78.8%	87.2%	37,284
20879	64	50	78.1%	80.0%	12,235
20880	0	--	--	--	--
20882	14	7	50.0%	100.0%	--
20886	124	92	74.2%	89.1%	1,088
20895	38	22	57.9%	81.8%	5,852
20896	***	***	***	***	***
20899	***	***	***	***	***
20901	185	131	70.8%	89.3%	3,632
20902	217	144	66.4%	90.3%	24,759
20903	98	68	69.4%	91.2%	22,504
20904	392	272	69.4%	88.2%	4,449
20905	34	22	64.7%	95.5%	1,275,546
20906	336	209	62.2%	89.0%	30,120

20910	275	185	67.3%	88.6%	6,870
20912	172	122	70.9%	92.6%	4,700
21771	***	***	***	***	***
Unknown	28	15	53.6%	93.3%	94,820
<b>TOTAL</b>	<b>3,219</b>	<b>2,182</b>	<b>67.8%</b>	<b>88.9%</b>	<b>8,160</b>

\*\*\* Data withheld due to low population counts and/or case counts

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Jurisdiction of Current Residence:** Jurisdiction of residence from the most recent report since 1/1/2009.

**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year.

**With Test:** Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

**Percent Suppressed:** Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

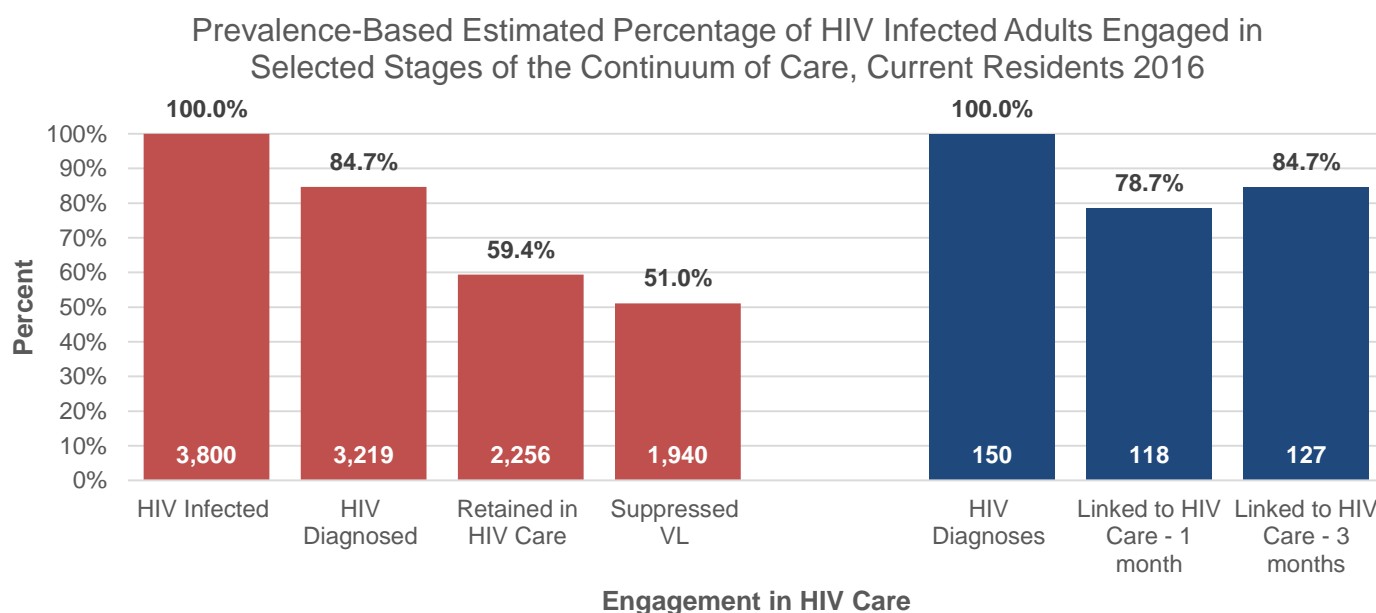
**Median Unsuppressed:** Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

## Section IV – Continuum of Care Cascades

In their 2011 article in *Clinical Infectious Diseases*, Gardner et al.<sup>1</sup> utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

**Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Montgomery County Residents, Reported through 6/30/2017**

The prevalence-based Montgomery County Engagement in HIV Care Cascade (below) uses the most recent Centers for Disease Control and Prevention (CDC) estimate of the number of undiagnosed persons in Maryland (15.3%)<sup>2</sup> to generate an estimated number of HIV infected persons currently residing in Montgomery County. It then uses Maryland surveillance data to describe the number and percentage of persons living with HIV in the county on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Infected	3,800	100.0%	New HIV Diagnoses	150	100.0%
HIV Diagnosed	3,219	84.7%	Linked to HIV Care – 1 Month	118	78.7%
Retained in HIV Care	2,256	59.4%	Linked to HIV Care – 3 Months	127	84.7%
Suppressed VL	1,940	51.0%			

**HIV Infected:** HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (15.3%) in Maryland.

**HIV Diagnosed:** Adult/adolescent total living HIV cases as of December 31<sup>st</sup> of the specified year.

**Retained in HIV Care:** HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

**Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

**New HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Linked to HIV Care – 1 month:** Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

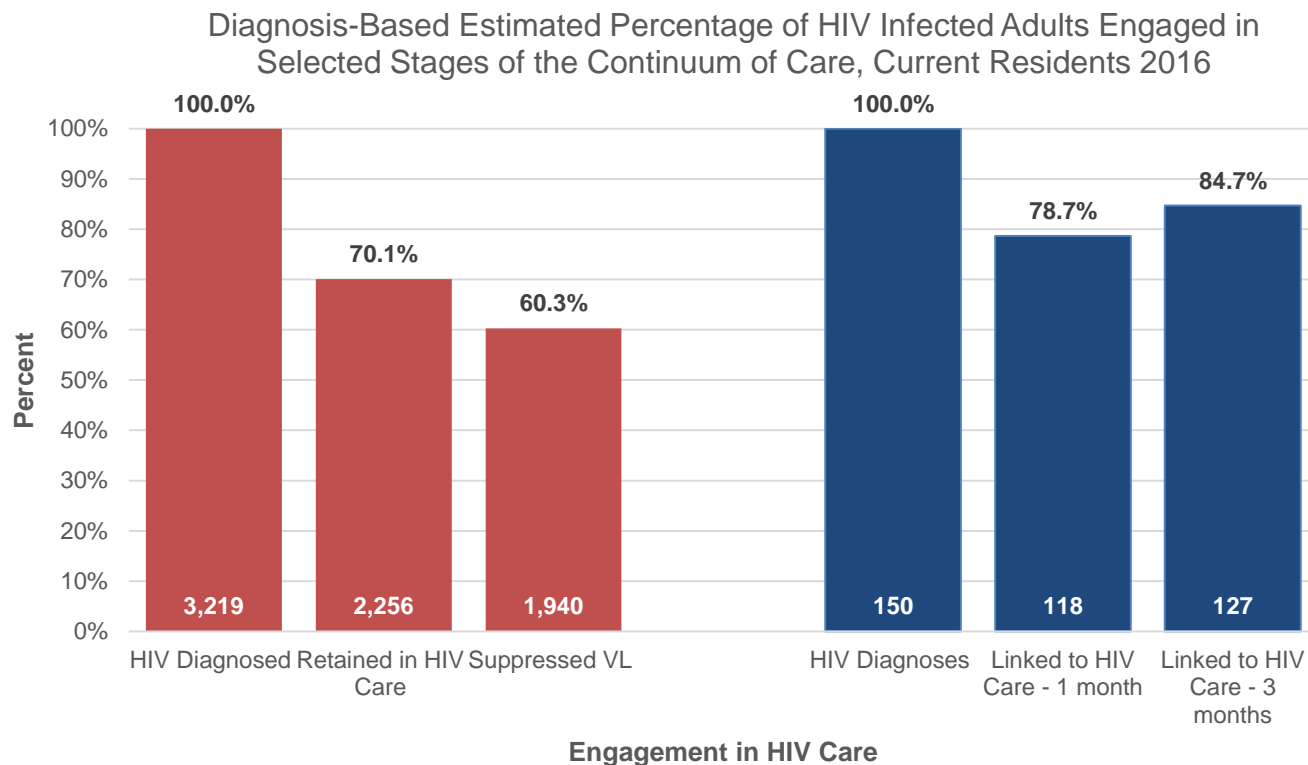
**Linked to HIV Care – 3 months:** Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

<sup>1</sup> Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test-and-Treat Strategies for Prevention of HIV Infection.” *Clin Infect Dis*. 2011; 52 (6): 793-800.

<sup>2</sup>Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2015. *HIV Surveillance Supplemental Report* 2017;22(No. 2). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published July 2017.

## Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2016 HIV Continuum of Care Cascades, Current Montgomery County Residents, Reported through 6/30/2017

The diagnosis-based Montgomery County Engagement in HIV Care Cascade (below) uses Maryland surveillance data for current county residents to describe the number and percentage of persons living with HIV in the county on 12/31/2016 and the number and percentage of new HIV diagnoses in 2016 who belong to each of the stages of engagement in HIV care.



Continuum of Care Stage	Living HIV Cases		Continuum of Care Stage	New Diagnoses	
	Number	Percentage		Number	Percentage
HIV Diagnosed	3,219	100.0%	New HIV Diagnoses	150	100.0%
Retained in HIV Care	2,256	70.1%	Linked to HIV Care – 1 Month	118	78.7%
Suppressed VL	1,940	60.3%	Linked to HIV Care – 3 Months	127	84.7%

**HIV Diagnosed:** Adult/adolescent total living HIV cases as of December 31<sup>st</sup> of the specified year with a recent address in Maryland between 2009 and 2016.

**Retained in HIV Care:** HIV Diagnosed with a reported CD4 or viral load test result performed during the specified year.

**Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

**New HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Linked to HIV Care – 1 month:** Adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month after their initial HIV diagnosis.

**Linked to HIV Care – 3 months:** Number of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

## Section V – Cases by Age

**Table 7 – HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 6/30/2017**

AGE AT HIV DIAGNOSIS	POPULATION	REPORTED HIV DIAGNOSES						
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result
					% 1 mo.	% 3 mo.	%	% Median Count
<5 (Pediatric)	67,056	1	0.7%	1.5	***	***	***	***
5-12 (Pediatric)	108,763	0	0.0%	0.0	0.0%	0.0%	0.0%	--
13-19	91,038	4	2.6%	4.4	***	***	***	***
20-29	124,850	31	20.5%	24.8	80.6%	83.9%	***	87.1% 477
30-39	144,454	43	28.5%	29.8	81.4%	83.7%	32.6%	86.0% 352
40-49	144,572	32	21.2%	22.1	81.3%	93.8%	18.8%	90.6% 330
50-59	148,344	26	17.2%	17.5	69.2%	76.9%	34.6%	84.6% 343
60+	214,786	14	9.3%	6.5	71.4%	78.6%	35.7%	78.6% 292
<b>TOTAL</b>	<b>1,043,863</b>	<b>151</b>	<b>100.0%</b>	<b>14.5</b>	<b>78.8%</b>	<b>84.8%</b>	<b>23.8%</b>	<b>86.1% 354</b>

\*\*\* Data withheld due to low population counts and/or case counts

**Age at HIV Diagnosis:** Age group at time of initial HIV diagnosis.

**Population:** Population estimate for 7/1/2016.

**Reported HIV Diagnoses:** Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

**Rate:** Number of HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

**Linked to Care:** Percent of reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

**Late HIV Diagnosis:** Percent of reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

**First CD4 Test Result Percent:** Percent of reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

**First CD4 Test Result Median Count:** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**Table 8 – HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017**

AGE ON 12/31/2016	POPULATION	TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<5	67,056	2	0.1%	0.0%	3.0	33,528
5-12	108,763	12	0.4%	0.0%	11.0	9,063
13-19	91,038	27	0.8%	22.2%	29.7	3,371
20-29	124,850	270	8.3%	22.2%	216.3	462
30-39	144,454	654	20.0%	37.3%	452.7	220
40-49	144,572	921	28.2%	54.0%	637.1	156
50-59	148,344	898	27.5%	59.2%	605.3	165
60+	214,786	480	14.7%	57.7%	223.5	447
<b>TOTAL</b>	<b>1,043,863</b>	<b>3,264</b>	<b>100.0%</b>	<b>49.5%</b>	<b>312.7</b>	<b>319</b>

**Age on [date]:** Age group of living cases on the specified date.

**Population:** Population estimate for 7/1/2016.

**Total Living HIV Cases:** Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Percent Living with AIDS:** The percent of reported HIV diagnoses with an AIDS diagnosis not reported to have died as of December 31<sup>st</sup> of the specified year.

**Rate:** Number of HIV cases divided by the population multiplied by 100,000.

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Table 9 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017**

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
13-19	11	11	100.0%	766	0.0%	9.1%	18.2%	72.7%
20-29	257	181	70.4%	589	5.0%	10.5%	18.2%	66.3%
30-39	652	428	65.6%	555	7.5%	14.3%	20.8%	57.5%
40-49	921	606	65.8%	556	9.7%	13.0%	21.3%	55.9%
50-59	898	623	69.4%	570	6.3%	16.7%	19.1%	57.9%
60+	480	335	69.8%	547	7.8%	16.4%	20.9%	54.9%
<b>TOTAL</b>	<b>3,219</b>	<b>2,184</b>	<b>67.8%</b>	<b>561</b>	<b>7.6%</b>	<b>14.6%</b>	<b>20.2%</b>	<b>57.6%</b>

**Table 10 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Age on 12/31/2016, Reported through 6/30/2017**

AGE ON 12/31/2016	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	No.	Recent Viral Load Test Result				
		No. with Test	% with Test	% Suppressed	Median Unsuppressed	
13-19	11	10	90.9%	80.0%	19,363	
20-29	257	181	70.4%	83.4%	11,033	
30-39	652	435	66.7%	84.8%	6,586	
40-49	921	602	65.4%	89.0%	5,945	
50-59	898	627	69.8%	91.2%	18,208	
60+	480	327	68.1%	92.7%	7,002	
<b>TOTAL</b>	<b>3,219</b>	<b>2,182</b>	<b>67.8%</b>	<b>88.9%</b>	<b>8,160</b>	

**Age on [date]:** Age group of living cases on the specified date.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year.

**CD4 With Test:** Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

**Median Count:** Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year.

**Viral Load With Test:** Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

**Percent Suppressed:** Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

**Median Unsuppressed:** Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.



## Section VI – Adult/Adolescent Cases by Demographics

**Table 11 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017**

SEX AT BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
<b>Male</b>	413,549	81	54.0%	19.6	82.7%	86.4%	22.2%	88.9%	379
<b>Female</b>	454,495	69	46.0%	15.2	73.9%	82.6%	26.1%	84.1%	324
<b>TOTAL</b>	868,044	150	100.0%	17.3	78.7%	84.7%	24.0%	86.7%	354

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
<b>Hispanic</b>	152,581	23	15.3%	15.1	91.3%	95.7%	21.7%	95.7%	379
<b>Non-Hispanic</b>	715,463	127	84.7%	17.8	76.4%	82.7%	24.4%	85.0%	353
American Indian/Alaska Native, only	1,448	0	0.0%	0.0	--	--	--	--	--
Asian, only	135,565	3	2.0%	2.2	***	***	***	***	***
Black, only	154,677	102	68.0%	65.9	81.4%	88.2%	22.5%	88.2%	354
Native Hawaiian/ Other Pacific Islander, only	384	0	0.0%	0.0	--	--	--	--	--
White, only	405,637	16	10.7%	3.9	50.0%	50.0%	***	68.8%	407
Multiracial/ Other	17,752	6	4.0%	33.8	***	***	***	***	***
<b>TOTAL</b>	868,044	150	100.0%	17.3	78.7%	84.7%	24.0%	86.7%	354

COUNTRY OF BIRTH	POPULATION AGE 13+*	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.		%	Median Count
<b>United States</b>	528,064	96	64.0%	18.2	80.2%	84.4%	22.9%	84.4%	355
<b>Foreign-born</b>	316,369	46	30.7%	14.5	73.9%	84.8%	23.9%	91.3%	391
Africa	--	37	24.7%	--	70.3%	81.1%	24.3%	89.2%	352
Asia	--	1	0.7%	--	***	***	***	***	***
Caribbean	--	2	1.3%	--	***	***	***	***	***
Central America	--	2	1.3%	--	***	***	***	***	***
Other	--	4	2.7%	--	***	***	***	***	***
Unknown	--	8	5.3%	--	87.5%	87.5%	37.5%	87.5%	243
<b>TOTAL</b>	844,433	150	100.0%	17.8	78.7%	84.7%	24.0%	86.7%	354

\* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

\*\* Population data by country of birth are from the 2015 American Community Survey

\*\*\* Data withheld due to low population and/or case counts

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2016.

**Adult/Adolescent Reported HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Rate:** Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

**Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

**Late HIV Diagnosis:** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

**First CD4 Test Result Percent:** Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

**First CD4 Test Result Median Count:** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**Table 12 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity, and Country of Birth, Reported through 6/30/2017**

SEX AT BIRTH	POPULATION AGE 13+	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<b>Male</b>	413,549	2,027	63.0%	49.9%	490.1	204
<b>Female</b>	454,495	1,192	37.0%	49.6%	262.3	381
<b>TOTAL</b>	868,044	3,219	100.0%	49.8%	370.8	269

RACE/ETHNICITY	POPULATION AGE 13+*	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<b>Hispanic</b>	152,581	472	14.7%	54.2%	309.3	323
<b>Non-Hispanic</b>	715,463	2,747	85.3%	49.0%	383.9	260
American Indian/Alaska Native, only	1,448	3	0.1%	0.0%	207.2	482
Asian, only	135,565	60	1.9%	30.0%	44.3	2,259
Black, only	154,677	1,955	60.7%	51.7%	1,263.9	79
Native Hawaiian/ Other Pacific Islander, only	384	0	0.0%	0.0%	0.0	--
White, only	405,637	538	16.7%	42.6%	132.6	753
Multiracial/ Other	17,752	191	5.9%	46.6%	1,075.9	92
<b>TOTAL</b>	868,044	3,219	100.0%	49.8%	370.8	269

COUNTRY OF BIRTH	POPULATION AGE 13+**	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
		No.	% of Total	% Living with AIDS	Rate	Ratio (1 in X)
<b>United States</b>	528,064	2,031	63.1%	48.5%	384.6	260
<b>Foreign-born</b>	316,369	1,003	31.2%	55.5%	317.0	315
Africa	--	688	21.4%	56.8%	--	--
Asia	--	46	1.4%	37.0%	--	--
Caribbean	--	44	1.4%	45.5%	--	--
Central America	--	138	4.3%	63.0%	--	--
Other	--	87	2.7%	48.3%	--	--
Unknown	--	185	5.7%	31.9%	--	--
<b>TOTAL</b>	844,433	3,219	100.0%	49.8%	381.2	262

\* Population data by sex at birth, age, and race/ethnicity are from the 2016 U.S. Census population estimates

\*\* Population data by country of birth are from the 2015 American Community Survey

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2016.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Percent Living with AIDS:** The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Rate:** Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Table 13 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017**

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Male	2,027	1,376	67.9%	546	8.4%	15.8%	20.1%	55.7%
Female	1,192	808	67.8%	588	6.2%	12.5%	20.5%	60.8%
TOTAL	3,219	2,184	67.8%	561	7.6%	14.6%	20.2%	57.6%

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Hispanic	472	344	72.9%	555	9.0%	12.8%	21.5%	56.7%
Non-Hispanic	2,747	1,840	67.0%	563	7.3%	14.9%	20.0%	57.8%
American Indian/Alaska Native, only	3	***	***	***	***	***	***	***
Asian, only	60	***	***	***	***	***	***	***
Black, only	1,955	1,327	67.9%	535	7.8%	16.1%	22.0%	54.1%
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--	--	--	--
White, only	538	346	64.3%	660	5.5%	11.3%	13.3%	69.9%
Multiracial/Other	191	129	67.5%	582	7.8%	14.0%	17.8%	60.5%
TOTAL	3,219	2,184	67.8%	561	7.6%	14.6%	20.2%	57.6%

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
United States	2,031	1,363	67.1%	576	7.9%	14.8%	18.2%	59.1%
Foreign-born	1,003	725	72.3%	536	6.8%	14.3%	24.0%	54.9%
Africa	688	498	72.4%	531	6.8%	15.5%	24.5%	53.2%
Asia	46	30	65.2%	555	6.7%	16.7%	20.0%	56.7%
Caribbean	44	36	81.8%	705	2.8%	5.6%	19.4%	72.2%
Central America	138	101	73.2%	481	9.9%	15.8%	25.7%	48.5%
Other	87	60	69.0%	594	3.3%	6.7%	21.7%	68.3%
Unknown	185	96	51.9%	607	8.3%	13.5%	20.8%	57.3%
TOTAL	3,219	2,184	67.8%	561	7.6%	14.6%	20.2%	57.6%

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year.

**With Test:** Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

**Median Count:** Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

**Table 14 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2017**

SEX AT BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Male	2,027	1,359	67.0%	89.2%	7,720
Female	1,192	823	69.0%	88.3%	9,194
TOTAL	3,219	2,182	67.8%	88.9%	8,160

RACE/ETHNICITY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Hispanic	472	340	72.0%	90.0%	19,722
Non-Hispanic	2,747	1,842	67.1%	88.7%	6,539
American Indian/Alaska Native, only	3	***	***	***	***
Asian, only	60	***	***	***	***
Black, only	1,955	1,331	68.1%	86.9%	6,020
Native Hawaiian/Other Pacific Islander, only	0	--	--	--	--
White, only	538	344	63.9%	94.5%	14,125
Multiracial/Other	191	129	67.5%	89.1%	2,015
TOTAL	3,219	2,182	67.8%	88.9%	8,160

COUNTRY OF BIRTH	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
United States	2,031	1,363	67.1%	88.3%	6,539
Foreign-born	1,003	719	71.7%	89.6%	10,080
Africa	688	496	72.1%	89.1%	7,832
Asia	46	28	60.9%	89.3%	51,832
Caribbean	44	35	79.5%	88.6%	3,180
Central America	138	99	71.7%	88.9%	10,715
Other	87	61	70.1%	95.1%	21,373
Unknown	185	100	54.1%	91.0%	25,119
TOTAL	3,219	2,182	67.8%	88.9%	8,160

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year.

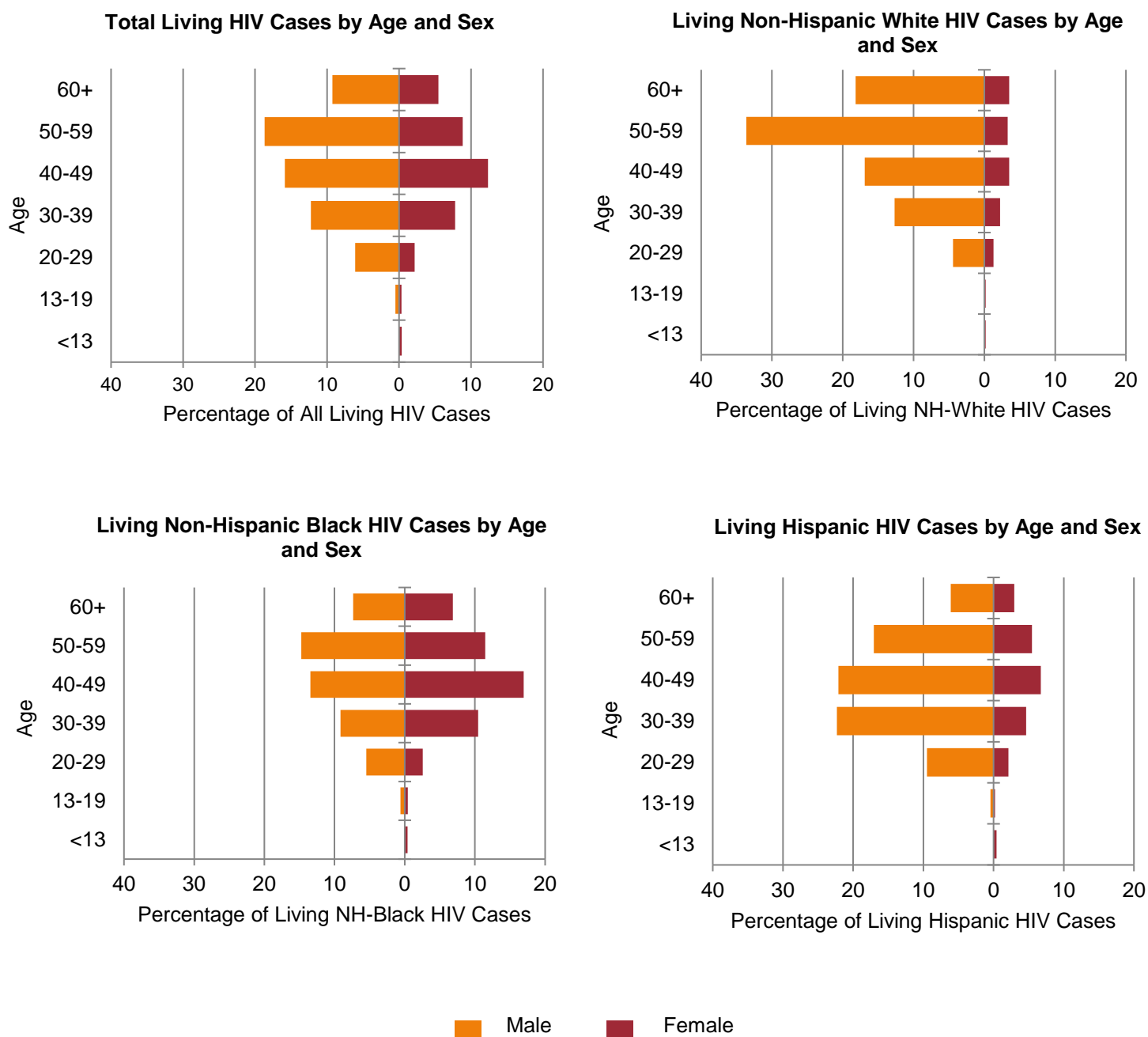
**With Test:** Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

**Percent Suppressed:** Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

**Median Unsuppressed:** Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

## Section VII – HIV Cases by Expanded Demographics

**Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017**



**Total Living HIV Cases:** Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Table 15 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017**

TOTAL LIVING MALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL MALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	24,037	17,611	30,931	17,361	89,940
	Cases	0	1	0	1	2
	Rate	0.0	5.7	0.0	5.8	2.2
	Ratio (1 in X)	--	17,611	--	17,361	44,969
13-19	Population	10,583	9,175	18,351	8,286	46,395
	Cases	2	12	0	2	16
	Rate	18.9	130.8	0.0	24.1	34.5
	Ratio (1 in X)	5,291	764	--	4,143	2,899
20-29	Population	15,255	12,391	23,753	10,852	62,251
	Cases	45	109	24	21	199
	Rate	295.0	879.7	101.0	193.5	319.7
	Ratio (1 in X)	339	113	989	516	312
30-39	Population	17,821	13,123	26,660	12,872	70,476
	Cases	106	182	69	43	400
	Rate	594.8	1,386.9	258.8	334.1	567.6
	Ratio (1 in X)	168	72	386	299	176
40-49	Population	14,889	12,742	28,654	12,982	69,267
	Cases	105	267	92	54	518
	Rate	705.2	2,095.4	321.1	416.0	747.8
	Ratio (1 in X)	141	47	311	240	133
50-59	Population	10,136	11,411	37,342	11,547	70,436
	Cases	81	293	183	52	609
	Rate	799.1	2,567.7	490.1	450.3	864.6
	Ratio (1 in X)	125	38	204	222	115
60+	Population	7,938	11,344	60,062	15,380	94,724
	Cases	29	146	99	28	302
	Rate	365.3	1,287.0	164.8	182.1	318.8
	Ratio (1 in X)	273	77	606	549	313
TOTAL MALES BY RACE/ETHNICITY	Population	100,659	87,797	225,753	89,280	503,489
	Cases	368	1,010	467	201	2,046
	Rate	365.6	1,150.4	206.9	225.1	406.4
	Ratio (1 in X)	273	86	483	444	246

**Age on [date]:** Age group of living cases on the specified date.

**Total Living Male HIV Cases:** Reported HIV diagnoses with Male sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Population:** Population estimate for 7/1/2016.

**Rate:** Number of cases divided by the population multiplied by 100,000.

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Table 16 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017**

TOTAL LIVING FEMALE HIV CASES						
AGE ON 12/31/2016		RACE/ETHNICITY				TOTAL FEMALES BY AGE GROUP
		Hispanic	Non- Hispanic Black, only	Non- Hispanic White, only	Non- Hispanic Other Race	
<13 (Pediatric)	Population	22,784	16,760	29,744	16,591	85,879
	Cases	2	8	1	1	12
	Rate	8.8	47.7	3.4	6.0	14.0
	Ratio (1 in X)	11,392	2,095	29,744	16,591	7,156
13-19	Population	9,863	9,066	17,617	8,097	44,643
	Cases	1	9	1	0	11
	Rate	10.1	99.3	5.7	0.0	24.6
	Ratio (1 in X)	9,863	1,007	17,617	--	4,058
20-29	Population	13,969	13,550	23,469	11,611	62,599
	Cases	10	51	7	3	71
	Rate	71.6	376.4	29.8	25.8	113.4
	Ratio (1 in X)	1,396	265	3,352	3,870	881
30-39	Population	15,708	15,590	27,446	15,234	73,978
	Cases	22	208	12	12	254
	Rate	140.1	1,334.2	43.7	78.8	343.3
	Ratio (1 in X)	714	74	2,287	1,269	291
40-49	Population	14,134	15,256	30,037	15,878	75,305
	Cases	32	337	19	15	403
	Rate	226.4	2,209.0	63.3	94.5	535.2
	Ratio (1 in X)	441	45	1,580	1,058	186
50-59	Population	10,972	14,000	39,292	13,644	77,908
	Cases	26	228	18	17	289
	Rate	237.0	1,628.6	45.8	124.6	371.0
	Ratio (1 in X)	422	61	2,182	802	269
60+	Population	11,313	17,029	72,954	18,766	120,062
	Cases	14	136	19	9	178
	Rate	123.8	798.6	26.0	48.0	148.3
	Ratio (1 in X)	808	125	3,839	2,085	674
TOTAL FEMALES BY RACE/ETHNICITY	Population	98,743	101,251	240,559	99,821	540,374
	Cases	107	977	77	57	1,218
	Rate	108.4	964.9	32.0	57.1	225.4
	Ratio (1 in X)	922	103	3,124	1,751	443

**Age on [date]:** Age group of living cases on the specified date.

**Total Living Female HIV Cases:** Reported HIV diagnoses with Female sex at birth with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Population:** Population estimate for 7/1/2016.

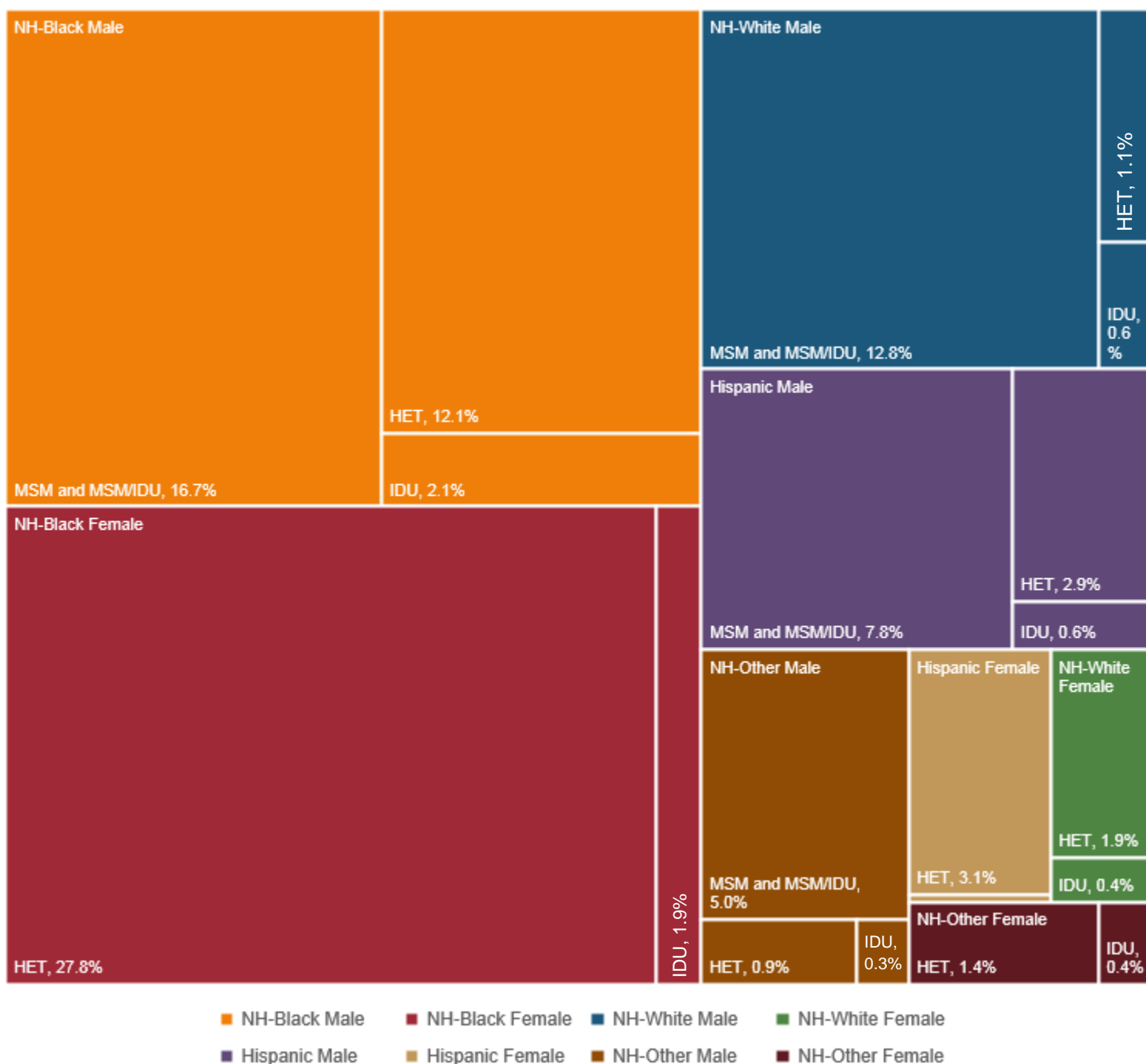
**Rate:** Number of cases divided by the population multiplied by 100,000.

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.



## Section VIII – HIV Exposure Category

**Figure 10 – Proportion of Adult/Adolescent Total Living HIV Cases, by Estimated Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016, Reported through 6/30/2017**



Other exposure category not shown (<1%).

Multiple imputation was used to estimate and adjust for missing transmission category.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Men who have Sex with Men (MSM):** Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

**Injection Drug Use (IDU):** Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

**MSM/IDU:** Men who report a history of sexual contact with other men who also have engaged in injection drug use.

**Heterosexual Exposure (HET):** Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

**Table 17 – Adult/Adolescent HIV Diagnoses during 2016, Linked to Care, Late Diagnosis, and First CD4 Test Result, by Exposure Category and Sex at Birth, Reported through 6/30/2017**

EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total with Exposure	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
<b>With Exposure</b>	93	100.0%	83.9%	91.4%	25.8%	91.4%	356
Men who have Sex with Men (MSM)	34	36.6%	85.3%	88.2%	20.6%	91.2%	410
Injection Drug Users (IDU)	***	***	***	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***	***	***	***
Heterosexual Exposure (HET)	55	59.1%	81.8%	92.7%	29.1%	90.9%	309
Other Exposure	0	0.0%	--	--	--	--	--
<b>No Reported Exposure</b>	57		70.2%	73.7%	21.1%	78.9%	352
<b>TOTAL</b>	150		78.7%	84.7%	24.0%	86.7%	354

MALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total with Exposure	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
<b>With Exposure</b>	50	100.0%	88.0%	92.0%	24.0%	94.0%	407
Men who have Sex with Men (MSM)	34	68.0%	85.3%	88.2%	20.6%	91.2%	410
Injection Drug Users (IDU)	***	***	***	***	***	***	***
Men who have Sex with Men and Inject Drugs (MSM/IDU)	***	***	***	***	***	***	***
Heterosexual Exposure (HET)	12	24.0%	91.7%	100.0%	***	100.0%	274
Other Exposure	0	0.0%	--	--	--	--	--
<b>No Reported Exposure</b>	31		74.2%	77.4%	19.4%	80.6%	354
<b>TOTAL</b>	81		82.7%	86.4%	22.2%	88.9%	379

FEMALE EXPOSURE CATEGORY**	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES						
	No.	% of Total with Exposure	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
			% 1 mo.	% 3 mo.	%	%	Median Count
<b>With Exposure</b>	43	100.0%	79.1%	90.7%	27.9%	88.4%	320
Injection Drug Users (IDU)	0	0.0%	--	--	--	--	--
Heterosexual Exposure (HET)	43	100.0%	79.1%	90.7%	27.9%	88.4%	320
Other Exposure	0	0.0%	--	--	--	--	--
<b>No Reported Exposure</b>	26		65.4%	69.2%	23.1%	76.9%	326
<b>TOTAL</b>	69		73.9%	82.6%	26.1%	84.1%	324

\*\* 2016 reported HIV exposure data are preliminary.

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Reported HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

**Late HIV Diagnosis:** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

**First CD4 Test Result Percent:** Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

**First CD4 Test Result Median Count:** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**Table 18 – Adult/Adolescent Living HIV Cases Alive on 12/31/2016, by Exposure Category and Sex at Birth, Reported through 6/30/2017**

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
<b>With Exposure</b>	2,564	100.0%	54.1%
Men who have Sex with Men (MSM)	1,071	41.8%	47.2%
Injection Drug Users (IDU)	108	4.2%	79.6%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	52	2.0%	75.0%
Heterosexual Exposure (HET)	1,326	51.7%	56.8%
Other Exposures	7	0.3%	28.6%
<b>No Reported Exposure*</b>	655		33.0%
<b>TOTAL</b>	<b>3,219</b>		<b>49.8%</b>

MALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
<b>With Exposure</b>	1,638	100.0%	53.8%
Men who have Sex with Men (MSM)	1,071	65.4%	47.2%
Injection Drug Users (IDU)	64	3.9%	81.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	52	3.2%	75.0%
Heterosexual Exposure (HET)	448	27.4%	63.6%
Other Exposures	3	0.2%	0.0%
<b>No Reported Exposure</b>	389		33.2%
<b>TOTAL</b>	<b>2,027</b>		<b>49.9%</b>

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES		
	No.	% of Total with Exposure	% Living with AIDS
<b>With Exposure</b>	926	100.0%	54.4%
Injection Drug Users (IDU)	44	4.8%	77.3%
Heterosexual Exposure (HET)	878	94.8%	53.3%
Other Exposures	4	0.4%	50.0%
<b>No Reported Exposure*</b>	266		32.7%
<b>TOTAL</b>	<b>1,192</b>		<b>49.6%</b>

\* Includes 3 living HIV cases with Presumed Female Heterosexual exposure

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Percent Living with AIDS:** The percent of reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Table 19 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2016 and Reported through 6/30/2017**

Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
<b>With Exposure</b>	410	100.0%	1,552	100.0%	396	100.0%
Men who have Sex with Men (MSM)	211	51.5%	413	26.6%	312	78.8%
Injection Drug Users (IDU)	18	4.4%	64	4.1%	16	4.0%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	11	2.7%	22	1.4%	13	3.3%
Heterosexual Exposure (HET)	169	41.2%	1,048	67.5%	54	13.6%
Other Exposures	1	0.2%	5	0.3%	1	0.3%
<b>No Reported Exposure*</b>	62		403		142	
<b>TOTAL</b>	472		1,955		538	

Male Exposure Category	Adult/Adolescent Total Living HIV Cases					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
<b>With Exposure</b>	322	100.0%	789	100.0%	362	100.0%
Men who have Sex with Men (MSM)	211	65.5%	413	52.3%	312	86.2%
Injection Drug Users (IDU)	16	5.0%	33	4.2%	12	3.3%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	11	3.4%	22	2.8%	13	3.6%
Heterosexual Exposure (HET)	83	25.8%	320	40.6%	24	6.6%
Other Exposures	1	0.3%	1	0.1%	1	0.3%
<b>No Reported Exposure</b>	45		207		104	
<b>TOTAL</b>	367		996		466	

FEMALE EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES					
	Race/Ethnicity					
	Hispanic		Non-Hispanic, Black, only		Non-Hispanic, White, only	
	No.	% of Total with Exposure	No.	% of Total with Exposure	No.	% of Total with Exposure
<b>With Exposure</b>	88	100.0%	763	100.0%	34	100.0%
Injection Drug Users (IDU)	2	2.3%	31	4.1%	4	11.8%
Heterosexual Exposure (HET)	86	97.7%	728	95.4%	30	88.2%
Other Exposures	0	0.0%	4	0.5%	0	0.0%
<b>No Reported Exposure*</b>	17		196		38	
<b>TOTAL</b>	105		959		72	

\* Includes 3 non-Hispanic black cases with Presumed Female Heterosexual exposure

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Table 20 – CD4 Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017**

EXPOSURE CATEGORY	ADULT/ADOLESCENT TOTAL LIVING HIV CASES							
	No.	Recent CD4 Test Results						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
<b>With Exposure</b>	2,564	1,816	70.8%	557	7.8%	14.0%	21.2%	56.9%
Men who have Sex with Men (MSM)	1,071	757	70.7%	568	7.3%	13.1%	21.1%	58.5%
Injection Drug Users (IDU)	108	74	68.5%	503	10.8%	13.5%	25.7%	50.0%
Men who have Sex with Men and Inject Drugs (MSM/IDU)	52	33	63.5%	467	18.2%	21.2%	15.2%	45.5%
Heterosexual Exposure (HET)	1,326	947	71.4%	555	7.7%	14.7%	21.0%	56.6%
Other Exposures	7	5	71.4%	874	0.0%	0.0%	40.0%	60.0%
<b>No Reported Exposure*</b>	655	368	56.2%	596	6.3%	17.4%	15.5%	60.9%
<b>TOTAL</b>	3,219	2,184	67.8%	561	7.6%	14.6%	20.2%	57.6%

\* Includes 3 cases with Presumed Female Heterosexual exposure

**Table 21 – Viral Load Test Results during 2016 for Adult/Adolescent HIV Cases Alive on 12/31/2016, by Exposure Category, Reported through 6/30/2017**

Exposure Category	Adult/Adolescent Total Living HIV Cases				
	No.	Recent Viral Load Test Results			
		No. with Test	% with Test	% Suppressed	Median Count
With Exposure	2,564	1,812	70.7%	89.7%	8,234
Men who have Sex with Men (MSM)	1,071	748	69.8%	91.0%	6,870
Injection Drug Users (IDU)	108	73	67.6%	86.3%	31,734
Men who have Sex with Men and Inject Drugs (MSM/IDU)	52	33	63.5%	81.8%	23,070
Heterosexual Exposure (HET)	1,326	953	71.9%	89.3%	9,387
Other Exposures	7	5	71.4%	80.0%	260
No Reported Exposure*	655	370	56.5%	84.6%	3,419
TOTAL	3,219	2,182	67.8%	88.9%	8,160

\* Includes 3 cases with Presumed Female Heterosexual exposure

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year.

**CD4 With Test:** Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

**Median Count:** Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year.

**Viral Load With Test:** Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

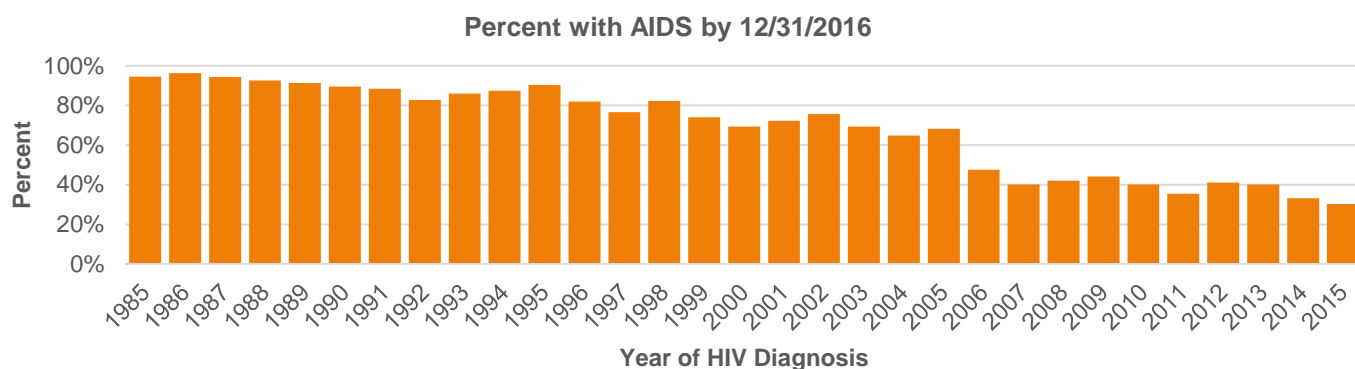
**Percent Suppressed:** Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

**Median Unsuppressed:** Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

## Section IX – Disease Progression and Mortality

**Figure 11 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2015, Reported through 6/30/2017**

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 12/31/2015 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2016 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2016, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017

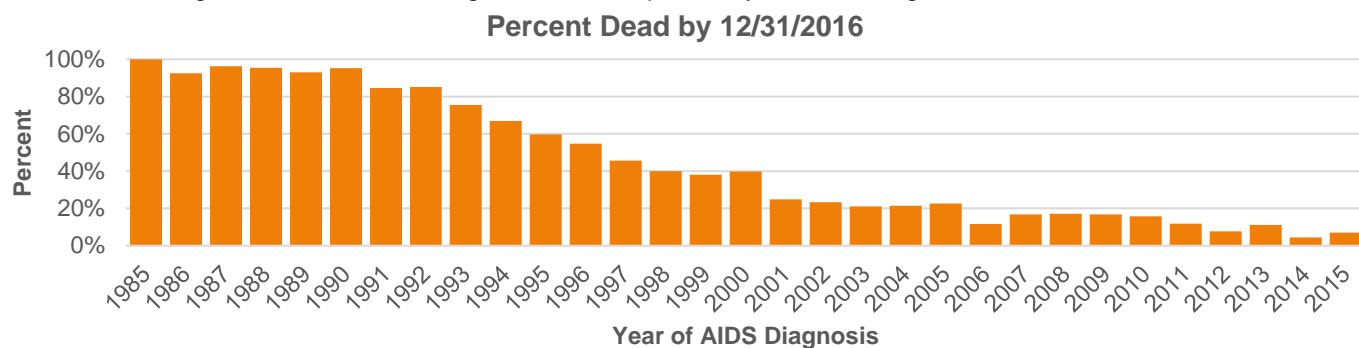


YEAR OF HIV DIAGNOSIS	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
	No.	Reported AIDS Diagnoses			Percent with AIDS by Years After HIV Diagnosis			
		No.	% with AIDS	Mean Years from HIV to AIDS	1 Year	2 Years	5 Years	10 Years
<1985	38	37	97.4%	7.1	39.5%	39.5%	47.4%	63.2%
1985	93	88	94.6%	6.3	35.5%	37.6%	43.0%	73.1%
1986	111	107	96.4%	4.4	49.5%	50.5%	60.4%	85.6%
1987	143	135	94.4%	3	55.9%	57.3%	70.6%	88.1%
1988	175	162	92.6%	3.1	50.9%	54.3%	71.4%	86.9%
1989	184	168	91.3%	2.7	54.3%	58.7%	72.8%	85.9%
1990	171	153	89.5%	2.4	48.5%	55.0%	74.9%	87.7%
1991	199	176	88.4%	2.2	54.8%	61.8%	77.9%	84.4%
1992	173	143	82.7%	2.8	45.1%	52.6%	66.5%	77.5%
1993	129	111	86.0%	1.6	60.5%	69.0%	78.3%	83.7%
1994	135	118	87.4%	2	60.7%	66.7%	74.1%	83.0%
1995	145	131	90.3%	1.7	66.9%	73.8%	79.3%	83.4%
1996	116	95	81.9%	1.9	57.8%	60.3%	70.7%	78.4%
1997	124	95	76.6%	2.1	57.3%	60.5%	64.5%	72.6%
1998	113	93	82.3%	2.1	57.5%	60.2%	69.9%	77.9%
1999	139	103	74.1%	1.5	57.6%	59.7%	64.7%	72.7%
2000	157	109	69.4%	1.7	51.6%	54.8%	59.2%	67.5%
2001	159	115	72.3%	1.5	53.5%	55.3%	65.4%	70.4%
2002	148	112	75.7%	1.3	60.8%	63.5%	70.3%	71.6%
2003	173	120	69.4%	1	57.8%	59.0%	65.3%	68.8%
2004	205	133	64.9%	0.9	55.1%	57.1%	60.0%	64.4%
2005	208	142	68.3%	0.8	58.7%	60.6%	65.9%	67.8%
2006	246	117	47.6%	1.1	36.6%	39.8%	43.9%	47.2%
2007	333	134	40.2%	1.4	30.9%	31.5%	34.5%	--
2008	257	108	42.0%	0.7	34.6%	36.6%	41.2%	--
2009	190	84	44.2%	1.2	34.2%	35.8%	40.5%	--
2010	192	77	40.1%	1.1	28.6%	31.3%	36.5%	--
2011	175	62	35.4%	0.7	30.3%	32.0%	34.3%	--
2012	185	76	41.1%	0.5	34.1%	38.9%	--	--
2013	167	67	40.1%	0.4	35.3%	37.7%	--	--
2014	187	62	33.2%	0.2	31.0%	32.6%	--	--
2015	155	47	30.3%	0.2	29.0%	--	--	--
TOTAL	5,325	3,480	65.4%	1.9	46.1%	49.2%	56.2%	62.6%



**Figure 12 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2015, Reported through 6/30/2017**

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/15 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2016 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2016, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2015, as Reported by Name through 6/30/2017



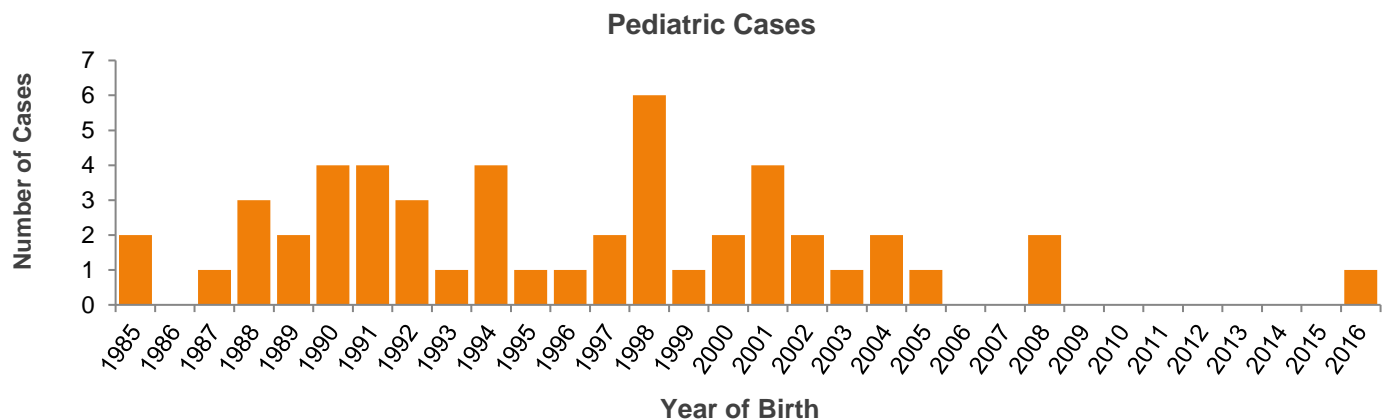
YEAR OF AIDS DIAGNOSIS	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES							
	Reported AIDS Deaths				Percent Alive by Years After AIDS Diagnosis			
	No.	No.	% Dead	Mean Years from AIDS to Death	1 Year	2 Years	5 Years	10 Years
<1985	15	15	100.0%	0.7	33.3%	6.7%	0.0%	0.0%
1985	32	32	100.0%	1.1	37.5%	12.5%	6.3%	0.0%
1986	54	50	92.6%	1.9	50.0%	29.6%	13.0%	9.3%
1987	82	79	96.3%	2.0	61.0%	35.4%	11.0%	7.3%
1988	89	85	95.5%	2.2	65.2%	37.1%	13.5%	9.0%
1989	116	108	93.1%	2.9	71.6%	54.3%	22.4%	12.1%
1990	104	99	95.2%	2.7	64.4%	48.1%	17.3%	9.6%
1991	130	110	84.6%	2.3	67.7%	51.5%	21.5%	17.7%
1992	135	115	85.2%	2.3	63.7%	46.7%	23.0%	19.3%
1993	143	108	75.5%	3.1	75.5%	60.1%	38.5%	30.8%
1994	175	117	66.9%	3.2	78.3%	60.6%	46.3%	38.9%
1995	181	108	59.7%	4.6	75.7%	71.3%	62.4%	49.7%
1996	126	69	54.8%	5.2	81.0%	78.6%	69.0%	56.3%
1997	105	48	45.7%	4.0	80.0%	76.2%	67.6%	61.0%
1998	100	40	40.0%	4.1	86.0%	81.0%	72.0%	65.0%
1999	105	40	38.1%	4.4	84.8%	81.0%	75.2%	68.6%
2000	113	45	39.8%	6.1	92.9%	90.3%	81.4%	70.8%
2001	113	28	24.8%	3.8	92.0%	90.3%	84.1%	77.0%
2002	128	30	23.4%	3.6	90.6%	89.1%	83.6%	78.9%
2003	133	28	21.1%	2.8	91.7%	88.0%	84.2%	80.5%
2004	149	32	21.5%	3.6	91.3%	87.2%	85.9%	81.9%
2005	146	33	22.6%	3.2	91.1%	89.0%	83.6%	78.1%
2006	128	15	11.7%	3.3	95.3%	93.0%	92.2%	88.3%
2007	137	23	16.8%	2.3	91.2%	89.1%	87.6%	--
2008	116	20	17.2%	2.2	92.2%	89.7%	85.3%	--
2009	95	16	16.8%	1.5	89.5%	89.5%	83.2%	--
2010	95	15	15.8%	1.9	92.6%	90.5%	86.3%	--
2011	67	8	11.9%	1.8	95.5%	92.5%	88.1%	--
2012	90	7	7.8%	0.3	93.3%	92.2%	--	--
2013	99	11	11.1%	1.4	96.0%	92.9%	--	--
2014	89	4	4.5%	0.7	96.6%	96.6%	--	--
2015*	71	5	7.0%	0.2	93.0%	--	--	--
TOTAL	3,461	1,543	44.6%	3.0	82.5%	74.9%	64.3%	58.9%

\*2015 AIDS deaths are preliminary.

## Section X – Pediatric Cases

**Figure 13 – Trends in Pediatric HIV Cases, 1985-2016, Reported through 6/30/2017**

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31<sup>st</sup> of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2016, as Reported by Name through 6/30/2017



YEAR	PEDIATRIC REPORTED HIV DIAGNOSES			PEDIATRIC TOTAL LIVING HIV CASES	
	No. by Year of Birth	No. by Year of HIV Diagnosis	No. by Year of AIDS Diagnosis	No. by Year of Death	No. Alive on 12/31 of Each Year
<1985	8	0	0	0	--
1985	2	2	1	1	1
1986	0	3	0	0	4
1987	1	1	0	0	5
1988	3	1	2	0	7
1989	2	2	1	1	8
1990	4	1	0	0	9
1991	4	4	2	0	13
1992	3	5	2	2	16
1993	1	0	2	1	15
1994	4	1	2	1	16
1995	1	0	1	0	15
1996	1	4	2	0	19
1997	2	0	0	0	19
1998	6	1	0	1	19
1999	1	2	2	0	20
2000	2	3	0	0	23
2001	4	3	2	0	26
2002	2	4	3	0	30
2003	1	1	1	0	31
2004	2	0	0	0	31
2005	1	2	1	1	32
2006	0	7	0	1	38
2007	0	3	0	1	40
2008	2	2	1	0	42
2009	0	3	0	0	45
2010	0	0	1	0	45
2011	0	0	1	0	44
2012	0	0	0	0	44
2013	0	1	1	0	44
2014	0	1	0	0	45
2015	0	0	2	0	44
2016	1	1	0	0	46
TOTAL	58	58	30	10	--

**Table 22 – Pediatric HIV Total Living HIV Cases, Diagnosed in Maryland, Alive on 12/31/2016, by Jurisdiction, Reported through 6/30/2017**

JURISDICTION OF RESIDENCE AT DIAGNOSIS	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
20816	1	2.2%
20817	1	2.2%
20832	1	2.2%
20850	3	6.5%
20853	1	2.2%
20854	3	6.5%
20874	3	6.5%
20876	2	4.3%
20877	2	4.3%
20878	2	4.3%
20879	1	2.2%
20886	1	2.2%
20895	2	4.3%
20902	2	4.3%
20903	2	4.3%
20904	6	13.0%
20905	3	6.5%
20906	5	10.9%
20910	4	8.7%
20912	1	2.2%
<b>TOTAL</b>	<b>46</b>	<b>100.0%</b>

**Jurisdiction of Residence at Diagnosis:** Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

**Pediatric Total Living HIV Cases:** Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Table 23 – Pediatric Total Living HIV Cases, Diagnosed in Maryland, by Sex at Birth and Race/Ethnicity, Alive on 12/31/2016 and Reported through 6/30/2017**

SEX AT BIRTH	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Male	24	52.2%
Female	22	47.8%
TOTAL	46	100.0%

RACE/ETHNICITY	PEDIATRIC TOTAL LIVING HIV CASES	
	No.	% of Total
Hispanic	3	6.5%
Non-Hispanic	43	93.5%
American Indian/ Alaska Native, only	0	0.0%
Asian, only	0	0.0%
Black, only	31	67.4%
Native Hawaiian/Other Pacific Islander, only	0	0.0%
White, only	9	19.6%
Multiracial/Other	3	6.5%
TOTAL	46	100.0%

**Pediatric Total Living HIV Cases:** Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

# Glossary of Terms

**Adult/Adolescent Living HIV Cases with AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Living HIV Cases without AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Reported AIDS Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

**Adult/Adolescent Reported HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Age at AIDS Diagnosis:** Age group at time of initial AIDS diagnosis.

**Age at HIV Diagnosis:** Age group at time of initial HIV diagnosis.

**Age on [date]:** Age group of living cases on the specified date.

**AIDS Deaths:** Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

**CD4 With Test:** Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

**Corrections:** Residence in a state or federal prison. Does not include local jails and detention centers.

**Current Residence:** Jurisdiction of residence from the most recent report since 1/1/2009.

**First CD4 Test Result Median Count:** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**First CD4 Test Result Percent:** Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

**Jurisdiction of Current Residence:** Jurisdiction of residence from the most recent report since 1/1/2009.

**Jurisdiction of Residence:** Jurisdiction of residence at diagnosis or current residence.

**Jurisdiction of Residence at AIDS Diagnosis:** Jurisdiction of residence at time of initial AIDS diagnosis.

**Jurisdiction of Residence at Diagnosis:** Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

**Jurisdiction of Residence at HIV Diagnosis:** Jurisdiction of residence at time of initial HIV diagnosis.

**Late HIV Diagnosis:** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

**Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

**Living HIV Cases with AIDS:** Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Living HIV Cases without AIDS:** Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Mean Years from HIV Diagnosis:** Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

**Mean Years from AIDS diagnosis to AIDS Death:** Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

**Median Count:** Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

**Median Unsuppressed:** Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

**Pediatric Total Living HIV Cases:** Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Percent Change:** The percent change in number of adult/adolescent total living HIV cases from by residence at diagnosis to current residence.

**Percent Alive by Years after AIDS Diagnosis:** Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

**Percent Late HIV Diagnosis:** Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

**Percent Suppressed:** Percent of adult/adolescent total living HIV cases with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

**Percent with AIDS:** Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2016.

**Percent with AIDS by Years after HIV Diagnosis:** Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

**Population:** Population estimate for 7/1/2016.

**Population Age 13+:** Population age 13 years or older, estimate for 7/1/2016.

**Rate:** Number of HIV cases divided by the population multiplied by 100,000.

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year.

**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year.

**Reported AIDS Deaths:** Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

**Reported AIDS Diagnoses:** Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

**Reported HIV Diagnoses:** Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

**Residence at Diagnosis:** Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

**Retained in HIV Care:** HIV Diagnosed with a CD4 test result performed in the specified year.

**Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

**Total Living HIV Cases:** Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Viral Load With Test:** Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.